

Quick™ Series Mowers



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Warning

CALIFORNIA Proposition 65 Warning.
The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

This spark ignition system complies with Canadian ICES-002.

Important: This engine is not equipped with a spark arrester muffler. It is a violation of California Public Resource Code Section 4442 to use or operate the engine on any forest-covered, brush-covered, or grass-covered land. Other states or federal areas may have similar laws.

The enclosed Engine Owner's Manual is supplied for information regarding the US Environmental Protection Agency (EPA) and the California Emission Control Regulation of emission systems, maintenance, and warranty. Replacements may be ordered through the engine manufacturer.

Introduction

Thank you for purchasing one of our Quick™ series mowers. If this product does not work to your total satisfaction, let us know and we will do our best to make it right.

Read this information carefully to learn how to operate and maintain your product properly and to avoid injury and product damage. You are responsible for operating the product properly and safely.

You may contact Better Outdoor Products™ directly at service@betteroutdoorproducts.com for product and accessory information.

Whenever you need service, genuine Better Outdoor Products™ parts, or additional information, contact Better Outdoor Products™ customer service and have the model and serial numbers of your product ready.

Figure 1 identifies the location of the model and serial numbers on the product. Write your numbers in the space provided.

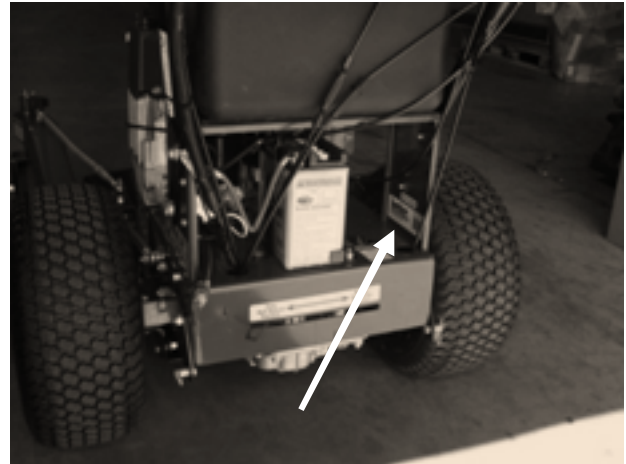


Figure 1

1. Location of the Serial Numbers

Model No. _____

Serial No. _____

Purchase Date _____

This manual identifies potential hazards and has safety messages identified by the following words:

- **Danger** signals an extreme hazard that will cause serious injury or death if you do not follow the recommended precautions.
- **Warning** signals a hazard that may cause serious injury or death if you do not follow the recommended precautions.
- **Caution** signals a hazard that may cause minor or moderate injury if you do not follow the recommended precautions.

This manual uses two other words to highlight information. **Important** calls attention to special mechanical information and **Note** emphasizes general information worthy of special attention.



Do not operate this machine without first reading owner's manual and engine manufacturer's manual.



Use of Ear Protection is recommended while operating this machine.



Use of Eye and Breathing protection is recommended when using this machine.

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Safety


Safety

Note: The addition of attachments made by other manufacturers that do not meet American National Standards Institute certification will cause noncompliance of this machine. Improper use or maintenance by the operator or owner can result in injury. To reduce the potential for injury, comply with these safety instructions and always pay attention to the safety alert symbol , which means **CAUTION**, **WARNING**, or **DANGER**—"personal safety instruction." Failure to comply with the instruction may result in personal injury or death.

Safe Operating Practices

The following instructions are from ANSI standard B71.4-2004.

Training

-  Read the Operator's Manual and other training material. If the operator(s) or mechanic(s) can't read English it is the owner's responsibility to explain this material to them.
- Become familiar with the safe operation of the equipment, operator controls, and safety signs.
- All operators and mechanics should be trained. The owner is responsible for training the users.
- **Never** let children or untrained people operate or service the equipment. Local regulations may restrict the age of the operator.
- The owner/user can prevent and is responsible for accidents or injuries occurring to himself or herself or other people or property.

Preparation

- Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job. Only use accessories and attachments approved by the manufacturer.
- Wear appropriate clothing including hard hat, safety glasses and hearing protection. Long hair, loose clothing or jewelry may get tangled in moving parts.
- Inspect the area where the equipment is to be used and remove all objects such as rocks, toys and wire which can be thrown by the machine.
- Use extra care when handling gasoline and other fuels. They are flammable and vapors are explosive.
- Use only an approved container
- **Never** remove gas cap or add fuel with engine running.
- Allow engine to cool before refueling.
- **Do not** smoke.
- **Never** refuel or drain the machine indoors.
- Check that operator's presence controls, safety switches and shields are attached and functioning

properly. **Do not** operate unless they are functioning properly.

Operation

- **Never** run an engine in an enclosed area.
- Only operate in good light, keeping away from holes and hidden hazards.
- Be sure all drives are in neutral and parking brake is engaged before starting engine. Only start engine from the operator's position.
- Be sure of your footing while using this machine especially when backing up. Walk, don't run. **Never** operate on wet grass. Reduced footing could cause slipping.
- Slow down and use extra care on hillsides. Be sure to travel side to side on hillsides. Turf conditions can affect the machine's stability. Use caution while operating near drop-offs.
- Slow down and use caution when making turns and when changing directions on slopes.
- **Never** raise deck with the blades running.
- **Never** operate with the mower deck belt guard, or other guards not securely in place. Be sure all interlocks are attached, adjusted properly, and functioning properly.
- **Never** operate with the discharge deflector raised, removed or altered, unless using a grass catcher.
- Do not change the engine governor setting or over speed the engine.
- Stop on level ground, disengage drives, engage parking brake (if provided), shut off engine before leaving the operator's position for any reason including emptying the catcher or unclogging the chute.
- Stop equipment and inspect blades after striking objects or if an abnormal vibration occurs. Make necessary repairs before resuming operations.
- Keep hands and feet away from the cutting unit.
- Look behind and down before backing up to be sure of a clear path.
- Keep pets and bystanders away.
- Slow down and use caution when making turns and crossing roads and sidewalks. Stop blades if not mowing.
- Be aware of the mower discharge direction and do not point it at anyone.
- **Do not** operate the mower under the influence of alcohol or drugs.
- Use care when loading or unloading the machine onto or from a trailer or truck.
- Use care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

Maintenance and storage

- Disengage drives, set parking brake, stop engine and remove key or disconnect spark plug wire(s). Wait for all movement to stop before adjusting, cleaning or repairing.
- Clean grass and debris from cutting unit, drives, mufflers, and engine to help prevent fires. Clean up oil or fuel spillage.
- Let engine cool before storing and **Do not** store near flame.
- Shut off fuel while storing or transporting. **Do not** store fuel near flames or drain indoors.
- Park machine on level ground. Set parking brake. **Never** allow untrained personnel to service machine.
- Use jack stands to support components when required.
- Carefully release pressure from components with stored energy.
- Disconnect the battery or remove spark plug wire(s) before making any repairs. Disconnect the negative terminal first and the positive last. Reconnect the positive first and negative last.
- Use care when checking blades. Wrap the blade(s) or wear gloves, and use caution when servicing them. Only replace blades. **Never** straighten or weld them.
- Keep hands and feet away from moving parts. If possible, **Do not** make adjustments with the engine running.
- Keep all parts in good working condition and all hardware tightened. Replace all worn or damaged decals.

Quick™ Mower Safety

The following list contains safety information specific to Better Outdoor Products™ and other safety information you must know. This product is capable of amputating hands and feet and throwing objects. Always follow all safety instructions to avoid serious injury or death. This product is designed for cutting and mulching grass or, when equipped with a grass bagger, for catching cut grass. Any use for purposes other than these could prove dangerous to user and bystanders.

General Operation

- Be sure the area is clear of other people before mowing. Stop the machine if anyone enters the area.
- **Do not** touch equipment or attachment parts which may be hot from operation. Allow to cool before attempting to maintain, adjust or service.
- Use only Better Outdoor Products™ approved attachments. Warranty may be voided if used with unapproved attachments.

Slope Operation

All slopes and ramps require extra caution. If you feel uneasy on a slope, **Do not** mow it.

- Remove obstacles such as rocks, tree limbs, etc. from the mowing area.
- Watch for holes, ruts or bumps. Tall grass can hide obstacles.
- Use caution near drop-offs, ditches, or embankments. The machine could suddenly turn over if a wheel goes over the edge of a cliff or ditch, or if an edge caves in.
- Use extra care with grass catchers or other attachments. These can change the stability of the machine.
- Keep all movement on slopes slow and gradual. **Do not** make sudden changes in speed or direction.
- Mow slopes side to side.
- **Do not** mow slopes greater than 15 degrees.

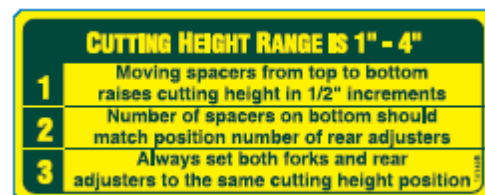
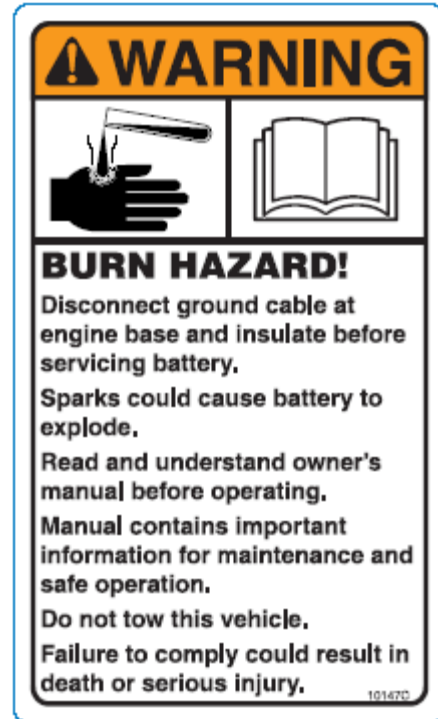
Service

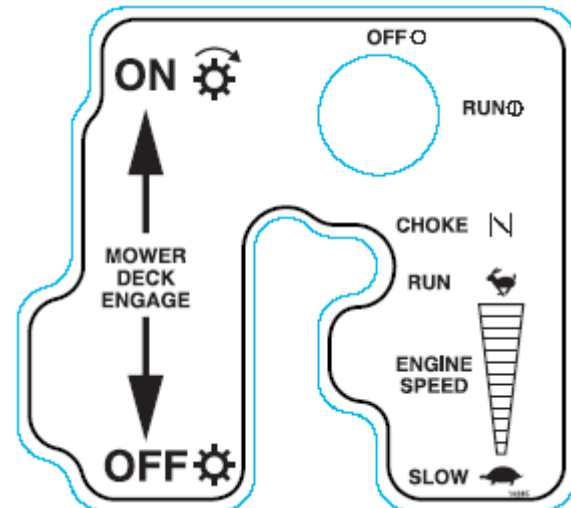
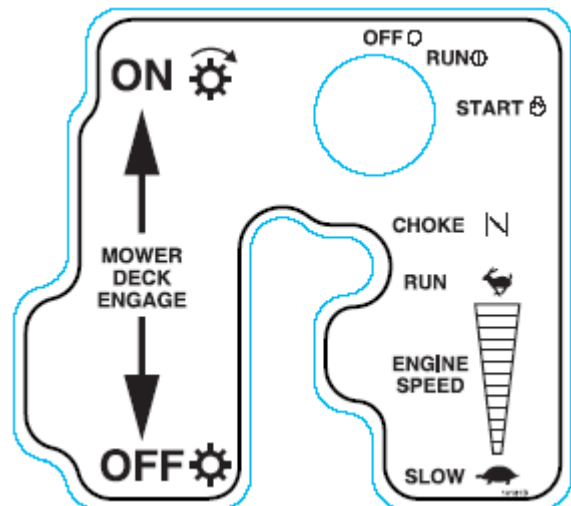
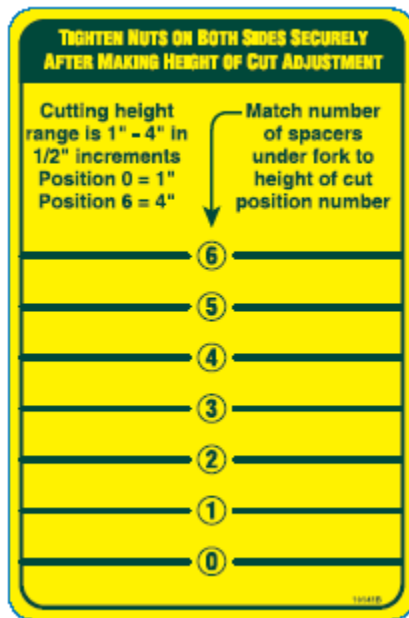
- **Never** store the machine or fuel container inside where there is an open flame, such as near a water heater or furnace.
 - Keep nuts and bolts tight, especially the blade attachment bolts. Keep equipment in good condition.
 - **Never** tamper with safety devices. Check safety systems for proper operation before each use.
 - Understand service procedure before doing work. Keep the work area clean and dry.
 - Engine exhaust fumes can cause sickness or death. **ONLY** start engine outdoors or in a well ventilated place.
 - Keep cigarettes, sparks and open flames away from the fuel system and the battery.
 - Always have an approved and fully charged fire extinguisher near your work area.
 - Wear personal eye protection when using compressed air for cleaning purposes.
 - **Never** lubricate, service or adjust mower while it is moving. Keep all safety devices in place and in working condition.
 - Keep hardware tight.
- To prevent them from getting caught, keep hands, feet, clothing, jewelry and long hair away from any moving parts.
- Before servicing machine, disengage all power and stop the engine. Let engine cool.
 - Securely support any machine elements that must be raised for service work.
 - Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil or debris.
 - Unauthorized modifications to the mower may impair its function and safety and will void any warranty.

Safety Decals



Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or lost.





OPERATING INSTRUCTIONS		WARNING	
<p>BEFORE STARTING: Read owner's manual. Check gas and oil levels. Release both levers. Move mower deck lever to off. Move throttle lever to choke (cold engine) or run (hot engine).</p> <p>STARTING ENGINE: Turn key to start position and hold until engine starts (but not for more than 15 seconds max). Release key to run position. Move throttle to run position.</p> <p>TO STOP ENGINE: Release right hand forward or reverse speed and directional control levers. Move mower engagement lever to off. Apply automatic brake by releasing left hand control lever. Move throttle control to idle. Turn key to off and remove key.</p> <p>ENGAGING BRAKE: Releasing left hand lever automatically engages brake.</p> <p>IN CASE OF EMERGENCY: Release all controls and carefully back away from machine. If blade is engaged engine will stop automatically.</p>	<p>ENGAGING WHEELS: Speed and directional control are both at your right hand. Squeezing right hand lever causes machine to move backward. Pressing thumb lever further causes machine to move faster in reverse. Releasing both levers will return machine to neutral. Fully release one control before applying other.</p> <p>ENGAGING MOWER: Clear work area of people and all other hazards. Push down and hold left hand lever to release brake and engage operator presence system. Move mower deck engagement lever to on position. If mower deck lever is engaged before holding down operator presence lever engine will stop.</p> <p>FAILURE TO COMPLY TO ANY OF THE ABOVE COULD RESULT IN DEATH OR SERIOUS INJURY.</p>	<p>CUTTING HAZARD! DO NOT put hands or feet under or into mower while engine is running.</p> <p>THROWN OBJECT HAZARD! DO NOT operate mower without discharge chute or entire grass catcher attached and in place. Keep all safety devices in place. Before starting mower clear area of objects that may be thrown by blade. Read and understand owner's manual before operating machine. Keep people, especially children, at least 100 feet away from work area while machine is running. Disengage blade and stop engine if someone approaches. Never carry riders, especially children, even if blades are turned off. DO NOT mow in reverse.</p>	<p>Look down and behind before and while backing. Wear hearing and eye protection while operating machine. DO NOT allow persons under 16 years of age to operate. ALWAYS drive across slopes, not up and down. Avoid sudden turns. If machine stops going uphill, stop blades and back down slowly. Always shut off engine and remove spark plug wire before making adjustments to or servicing any part of machine. When leaving machine, stop engine and remove key. FAILURE TO COMPLY TO ANY OF THE ABOVE COULD RESULT IN DEATH OR SERIOUS INJURY.</p>

Initial Setup

Uncrating

1. Open container and remove all packing material.
2. Using a 9/16 wrench, remove the four handlebar mounting bolts **Figure 2**.

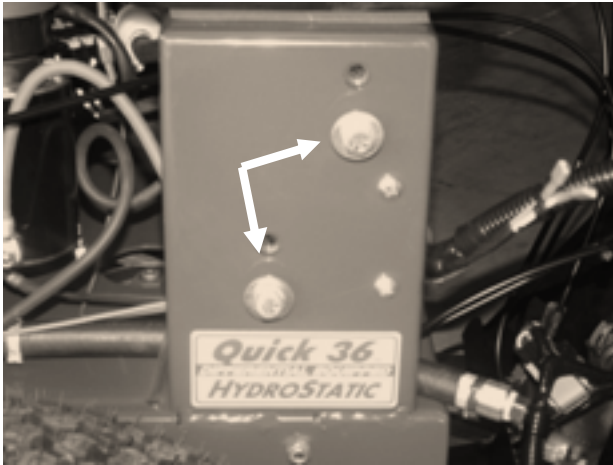


Figure 2

3. Rotate the handlebar assembly 180 degrees and reinstall handlebar mounting bolts in one of the two positions.
Note: Mounting handlebar in the top holes raises grips approximately 1".
4. Cut banding straps that hold machine to pallet.
5. Locate ground cables, remove tape and attach both wires to rear engine mounting bolt (electric start machines only) **Figure 3**.

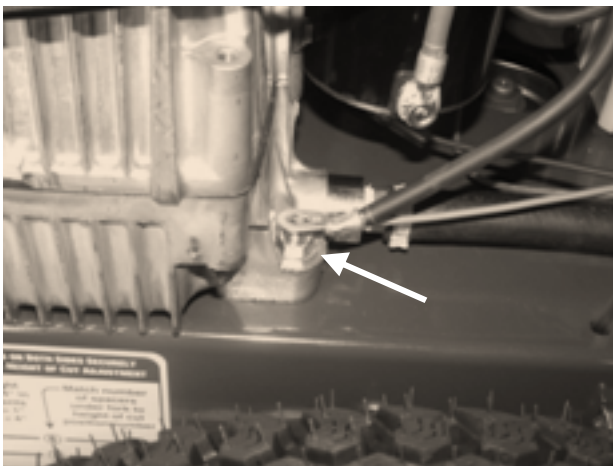


Figure 3

6. Using the 5/16 keps nut located in your Owner's Manual bag, secure ground cables to rear engine mounting bolt using a 1/2 wrench.
7. Place transaxle lever in Easy Roll Around position **Figure 4**.

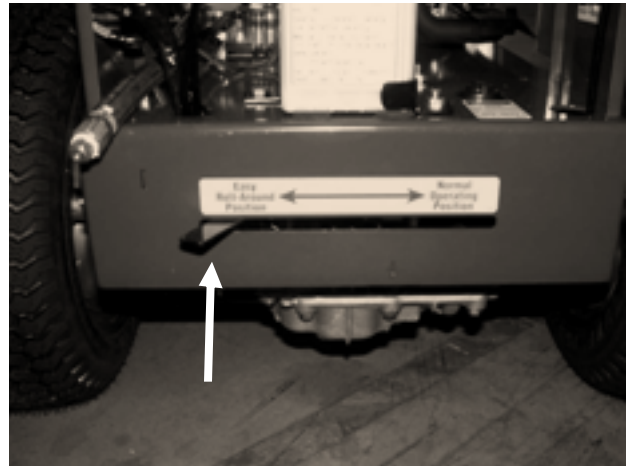


Figure 4

8. Depress the red operator presence/parking brake lever and remove machine from pallet **Figure 5**.

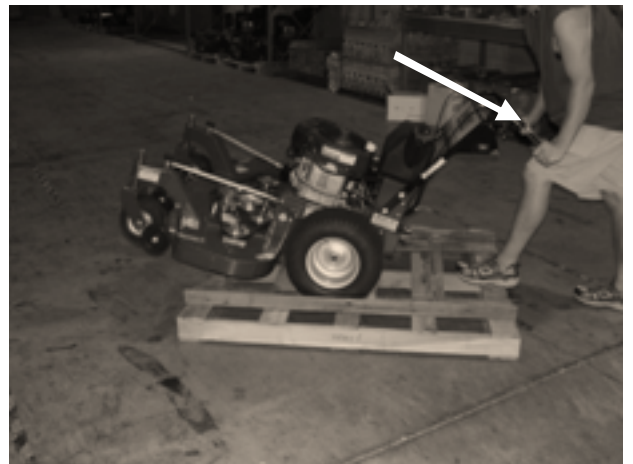
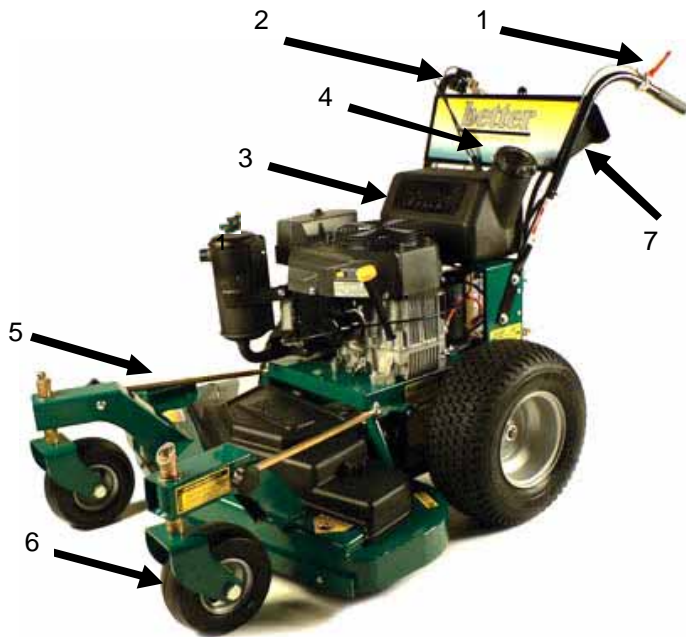


Figure 5

Product Overview



1. Operator Presence/Parking brake
2. Forward/Reverse control levers
3. Gas tank
4. Gas Cap
5. Side discharge chute
6. Front caster wheel
7. Hour Meter

Controls

Become familiar with all the controls (**Figure 6**) before you start the engine and operate the machine.

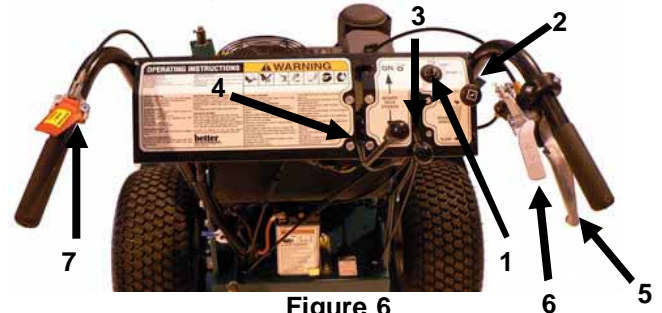


Figure 6

1. Ignition Switch
2. Manual Choke (if equipped)
3. Throttle
4. PTO Control
5. Forward Motion Lever
6. Reverse Motion Lever
7. Operator Presence/Parking brake

Ignition Switch

This switch is used to start the mower engine. Manual start engines have two positions: Run and Stop. Electric start engines have three positions: Start, Run and Stop.

Choke

Use the choke when starting a cold engine.

Throttle Control

The throttle controls engine RPM.

Blade Engagement Control (PTO)

The blade engagement control (PTO) is used to engage the drive for the mower blades. Move the lever up and to the right to engage the blades. To disengage the blades, move the blade control lever (PTO) down. The operator presence/parking brake lever must be depressed for the blades to engage.

Motion Control Levers

The motion control levers are used to drive the machine forward or reverse.

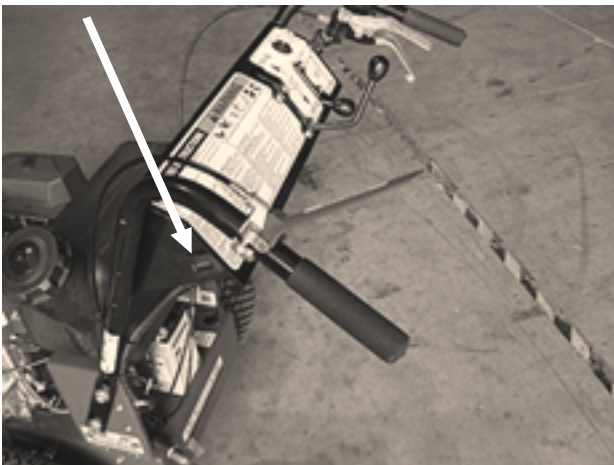
Note: Determine the left and right sides of the machine from the normal operating position.

Fuel Shut-off Valve



Close the fuel shut-off valve (under the fuel tank) when transporting or storing the mower.

Hour Meter



The hour meter shows the total hours the machine has been operated.

The hour meter runs anytime the key is in the on position.

Note: Check your hour meter to ensure that maintenance is done at all recommended intervals shown in the Recommended Maintenance Schedule.

Attachments/Accessories

A selection of Better Outdoor Products™ approved attachments and accessories are available for use with the machine to enhance and expand its capabilities. Contact Better Outdoor Products™ for information on approved accessories.

Operator Presence/Parking Brake



The operator presence/parking brake lever automatically applies the brake when released. It must be depressed to move the machine. The lever also operates the safety interlock system.

Specifications

Note: Specifications and design are subject to change without notice.

32 inch mowers:

Width with deflector up	35 ½ inches
Length	66 inches
Height	40 inches
Weight	311-339 pounds

36 inch mowers:

Width with deflector up	39 ½ inches
Length	59 inches
Height	40 inches
Weight	316-344 pounds

44 inch mowers:

Width with deflector up	47 ½ inches
Length	60 ½ inches
Height	40 inches
Weight	366-380 pounds

Operation

Adding Fuel

Use Unleaded Regular Gasoline suitable for automotive use (85 octane minimum).

Important: **Never** use methanol, gasoline containing methanol, or gasohol containing more than 10% ethanol because the fuel system could be damaged. **Do not** mix oil with gasoline.



In certain conditions, gasoline is extremely flammable and highly explosive. A fire or explosion from gasoline can burn you and others and can damage property.

- Fill the fuel tank outdoors, in an open area, when the engine is cold. Wipe up any gasoline that spills.
- **Never** fill the fuel tank inside an enclosed trailer.
- **Do not** fill the fuel tank completely full. Add gasoline to the fuel tank until the level is 1/4 to 1/2 inch (6 to 13 mm) below the bottom of the filler neck. This empty space in the tank allows gasoline to expand.
- **Never** smoke when handling gasoline, and stay away from an open flame or where gasoline fumes may be ignited by a spark.
- Store gasoline in an approved container and keep it out of the reach of children. **Never** buy more than a 30-day supply of gasoline.
- **Do not** operate without entire exhaust system in place and in proper working condition.

In certain conditions during fueling, static electricity can be released causing a spark which can ignite the gasoline vapors. A fire or explosion from gasoline can burn you and others and can damage property.

- Always place gasoline containers on the ground away from your vehicle before filling.
- **Do not** fill gasoline containers inside a vehicle or on a truck or trailer bed because interior carpets or plastic truck bed liners may insulate the container and slow the loss of any static charge.
- When practical, remove gas-powered equipment from the truck or trailer and refuel the equipment with its wheels on the ground.
- If this is not possible, then refuel such equipment on a truck or trailer from a portable container, rather than from a gasoline dispenser nozzle.
- If a gasoline dispenser nozzle must be used, keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete.



Gasoline is harmful or fatal if swallowed. Long-term exposure to vapors can cause serious injury and illness.

- Avoid prolonged breathing of vapors.
- Keep face away from nozzle and gas tank or container opening.
- Keep gas away from eyes and skin.

Using Stabilizer/Conditioner

Use a fuel stabilizer/conditioner in the machine to provide the following benefits:

- Keeps gasoline fresh during storage of 90 days or less. For longer storage, it is recommended that the fuel tank be drained.
- Cleans the engine while it runs
- Eliminates gum-like varnish buildup in the fuel system, which causes hard starting

Important: **Do not** use fuel additives containing methanol or ethanol.

Add the correct amount of gas stabilizer/conditioner to the gas.

Note: A fuel stabilizer/conditioner is most effective when mixed with fresh gasoline. To minimize the chance of varnish deposits in the fuel system, use fuel stabilizer at all times.

Filling the Fuel Tank

Shut the engine off.

Clean around fuel tank cap and remove the cap. Add unleaded regular gasoline to fuel tank, until the level is 1/4 to 1/2 inch (6 to 13 mm) below the bottom of the filler neck. This space in the tank allows gasoline to expand. **Do not** fill the fuel tank completely full.

Install fuel tank cap securely. Wipe up any gasoline that may have spilled.

Checking the Engine Oil Level

Before you start the engine and use the machine, check the oil level in the engine crankcase; refer to Checking Oil Level in Engine Maintenance.

Think Safety First

Carefully read all the safety instructions and decals in the safety section. Knowing this information could help you or any bystanders avoid injury.

The use of protective equipment for eyes, hearing, feet and head is recommended.



This machine produces sound levels in excess of 85 dBA at the operator's ear and can cause hearing loss through extended periods of exposure. Wear hearing protection when operating this machine.

Starting the Engine

1. Connect the wire(s) to the spark plug(s).
2. Open the fuel valve.
3. Move the throttle control to run and pull the choke knob to the on position before starting a cold engine. (Briggs & Stratton choke position is just above the run position)

Note: A warm or hot engine may not require choking. To start a warm engine, move throttle control midway between the run and slow positions.

Turn the ignition key to the start position to energize the starter. When the engine starts, release the key.

Note: Do not engage the starter for more than 5 seconds at a time. If the engine fails to start, allow for a 15 second cool-down period between attempts. Failure to follow these instructions can burn out the starter motor.

When engine starts, move the throttle control between the run and slow position. On Kawasaki models push the choke lever to the off position. Allow the engine to warm up and then move the throttle control to the run position.

Stopping the Engine

Release the motion control lever.

Move the throttle lever to slow.

If the engine has been working hard or is hot, let the engine idle for 30 to 60 seconds before turning the engine off.

To stop the engine, turn the ignition key to off.

Important: Make sure fuel shut off valve is closed before transporting or storing the machine, as fuel leakage may occur. Before storing the machine, pull wire off spark plug(s) to prevent possibility of accidental starting.

Moving Forward or Backward

The throttle control regulates the engine speed as measured in rpm (revolutions per minute). Place the throttle control in the run position for best performance. Always operate in the full throttle position when mowing.



- Use caution when making turns.
- Slow the machine down before making sharp turns.

Moving Forward

Place the transaxle lever in normal operating position.

Depress the operator presence/brake lever.

To go forward, slowly squeeze the forward control lever.

Forward and reverse speeds are variable depending on the position of the motion control levers.

Moving Backward

To go backward, slowly push the reverse control lever with thumb.

Steering

The drive wheels of Quick™ mowers are not independently controlled. All Quick™ mowers are steered manually by turning the handlebars in the desired direction.

Stopping the Machine

To stop the machine, release forward or reverse control lever, disengage the blade engagement control lever (PTO), and turn the ignition key to off.

Remember to remove the key from the ignition switch.



Children or bystanders may be injured if they move or attempt to operate the mower while it is unattended. Always remove the ignition key and set the parking brake when leaving the machine unattended, even if just for a few minutes.

Pushing the Machine by Hand

The machine can be pushed by hand without the engine running if:

1. The transaxle lever is placed in the Easy Roll Around position.
2. The operator presence/brake lever is depressed.

Important: Always push the machine by hand. **Never** tow the machine with another vehicle. Hydraulic damage may occur.

Side Discharging or Mulching the Grass

This mower has a hinged grass deflector that disperses clippings to the side and down toward the turf.



Without the grass deflector, discharge cover, or complete grass catcher assembly mounted in place, you and others are exposed to blade contact and thrown debris. Contact with rotating mower blade(s) and thrown debris can cause injury or death.

- **Never** remove the grass deflector from the mower because the grass deflector routes material down toward the turf. If the grass deflector is ever damaged, replace it immediately.
- **Never** put your hands or feet under the mower.
- **Never** try to clear discharge area or mower blades unless the blade engagement control lever (PTO) is off and the ignition key is off. Also remove the key and pull the wire(s) off the spark plug(s).

Operating the Deck Engagement Control (PTO)

The deck engagement control (PTO) is used in conjunction with the operator presence/brake lever to engage and disengage the mower blades.

Engaging the Mower Blades (PTO)

1. To engage the mower blades, depress the operator presence/brake lever.
2. Place the throttle control lever between run and slow position.
3. Move the deck engagement control lever (PTO) up and to the right while holding down the operator presence lever.
4. Move throttle control lever to run position.

Disengaging the Mower Blades (PTO)

Move the deck engagement control lever (PTO) up and to the left, then down to the off position.

The Safety Interlock System



If safety interlock switches are disconnected or damaged the machine could operate unexpectedly causing personal injury.

- **Do not** tamper with the interlock switches.
- Check the operation of the interlock switches daily and replace any damaged switches before operating the machine.

Understanding the Safety Interlock System

The safety interlock system is designed to prevent the mower blades from rotating unless:

- The operator presence lever is depressed.
- The blade engagement control lever (PTO) is moved to the on position.

The safety interlock system is designed to stop the engine if you release the operator presence lever with the mower blades engaged.

Testing the Safety Interlock System

Test the safety interlock system by testing the wheel drive and blade drive systems before you use the machine each time.

Wheel Drive System

Start the engine; refer to Starting and Stopping the Engine in Operation.

Squeeze the forward control lever. The engine should stop running.

Blade Drive System

Start the engine.

Depress the operator presence/brake lever.

Continue holding the operator presence lever in the depressed position and move the blade engagement control lever (PTO) to the ON position. The clutch should engage and the mower blades should begin rotating. Release the operator presence lever. The engine should stop and blades should stop rotating.

Note: If the safety system does not operate as described below, contact Better Outdoor Products™ immediately.

Quick™ Adjustments

Height of Cut

1. Support front of deck with a jack stand **Figure 7**.



Figure 7

2. Remove lynch pin (10006) from the top of caster fork **Figure 8**.

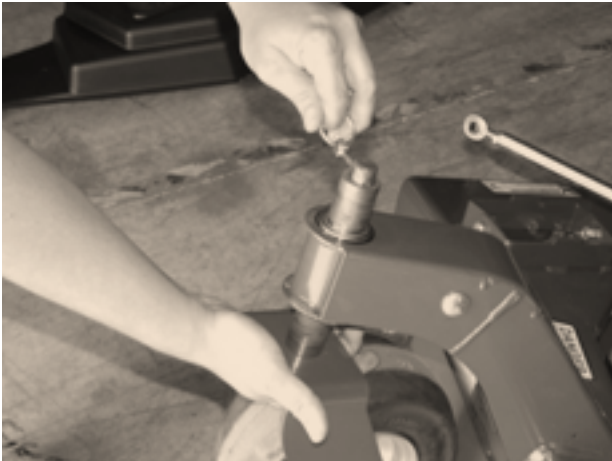


Figure 8

3. Remove HOC spacers (10004) and slide caster fork out **Figure 9**.



Figure 9

4. Add/remove spacers to the bottom side of the fork for desired height of cut. **See table below.**
5. Install in reverse order and repeat on other fork.
6. Using a $\frac{3}{4}$ socket, loosen the nut $1\frac{1}{2}$ to 2 full turns for the rear height of cut adjustment on both sides **Figure 10**.



Figure 10

7. Pull up or push down on the rear of the deck to align the arrow on the rear adjusters so that they both point to the number position that matches your caster fork setting and retighten nuts.
8. The height-of-cut can be adjusted from 1 to 4 inch (25 to 100 mm).

Note: Machines leave the factory set at 2 1/2".

Grass Height	Front Casters	Rear Adjustment
1 inch	0 spacers	0
1 1/2 inches	1 spacer	1
2 inches	2 spacers	2
2 1/2 inches	3 spacers	3
3 inches	4 spacers	4
3 1/2 inches	5 spacers	5
4 inches	6 spacers	6

Forward Cable(10425)

After several hours of operation the drive cables will set at a longer length. Cables may need re-adjustment to obtain maximum forward/reverse speed.

1. Locate the forward drive cable adjuster by following cable from drive control to adjuster **Figure 11**.

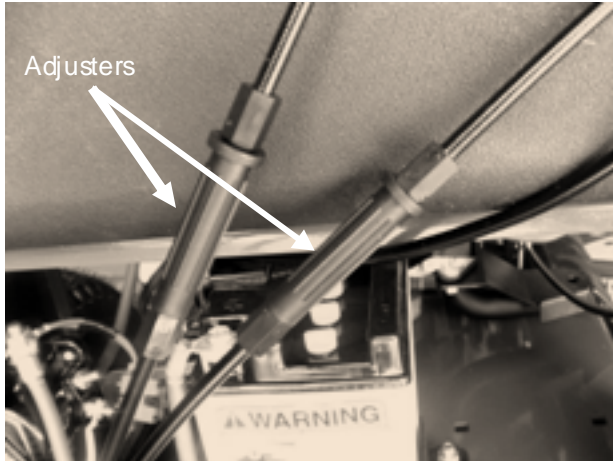


Figure 11

2. Turn the center barrel clockwise for less forward speed, counter-clockwise for more forward speed.
Note: Reverse cable may also need adjustment to remove any free-play in control handles.
Note: When properly adjusted, the forward/reverse levers should have 1/8" play.

Reverse Cable (10525)

1. Locate the reverse drive cable adjuster by following cable from the reverse control to adjuster see **Figure 11** above.
2. Turn the center barrel clockwise for less reverse speed, counter-clockwise for more reverse speed.
Note: Forward cable may also need adjustment to remove any free-play in control handles.
Note: When properly adjusted, the forward/reverse levers should have 1/8" play.

Operator Presence/Parking Brake Cable (10609)

1. Locate the operator presence cable adjuster by following cable down from handle.

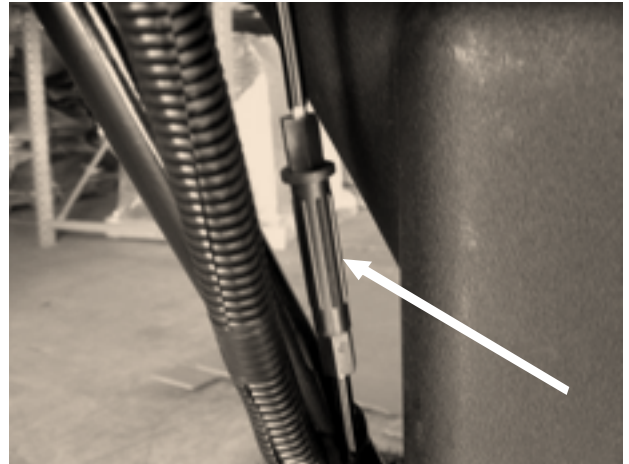


Figure 12

2. Turn the center barrel clockwise to remove excess free-play **Figure 12**.
Note: When properly adjusted, the operator presence/brake lever should have 1/8" play.

Handle Bar Height

There are two settings.

Lower holes are for normal operation.

Top holes are for taller people or Step Saver users.

1. Using a 9/16 wrench, remove both bolts holding each side of the handle bars to the power unit **Figure 13**.



Figure 13

2. Move handle bars to desired location and reinstall bolts.

Belt Guard Cover

1. Remove caster arm reinforcement strut knobs and rotate struts to the side **Figure 14**.

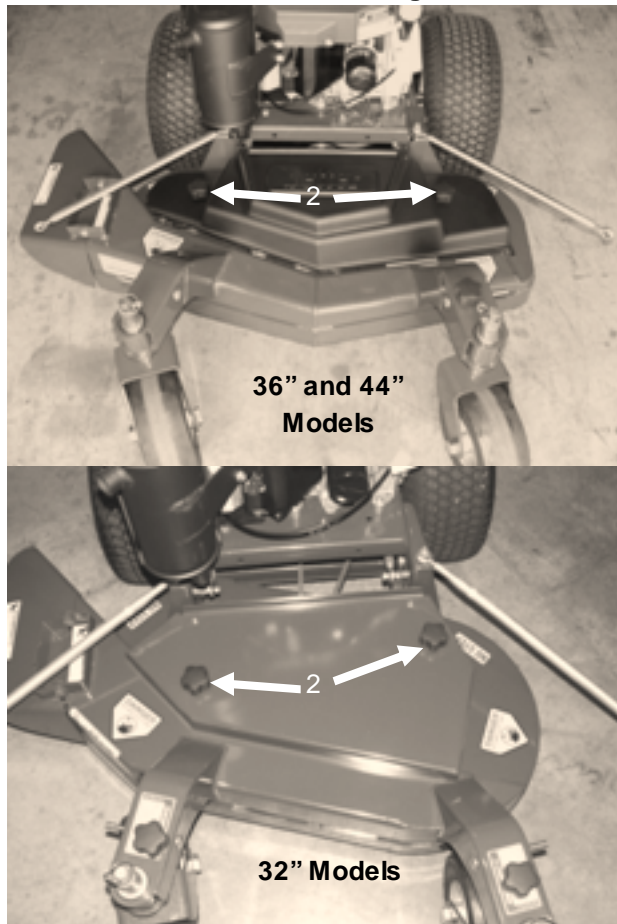


Figure 14

2. Remove belt cover knobs and remove cover.
3. Reinstall in reverse order.

Maintenance

Servicing the Engine Oil

Check the engine oil level daily when in use.

Change the engine oil as follows:

- After the first 8 operating hours
- After every 50 operating hours

Note: Change the oil more frequently when the operating conditions are extremely dusty or sandy.

Oil Type: Detergent oil (API service SF, SG, SH, or SJ)

Note: Using multi grade oils (5W-20, 10W-30 and 10W-40) will increase oil consumption and **IS NOT** recommended. Check oil level more frequently when using them.

Kawasaki Crankcase Capacity: 58 ounces (1.7 liter) with the filter removed; 51 ounces (1.5 liter) without the filter removed.

Briggs & Stratton Crankcase Capacity: 48 ounces (1.42 liter) with the filter removed; 44 ounces (1.3 liter) without the filter removed.

Viscosity: Refer to the table **Figure 15**.

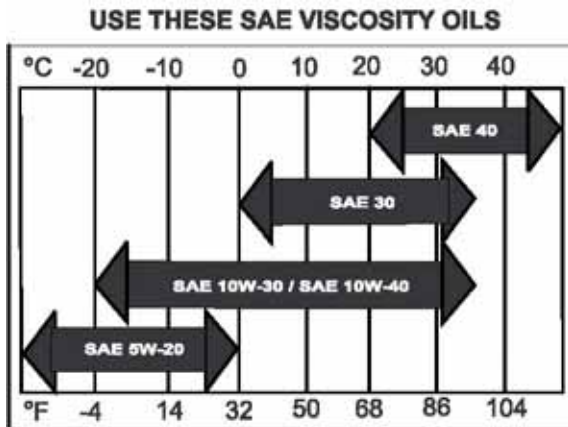


Figure 15

Checking the Engine Oil Level

1. Park the machine on a level surface.
2. Disengage the PTO.
3. Stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
4. Clean around the oil dipstick (**Figure 16**) so that dirt cannot fall into the filler hole and damage the engine.

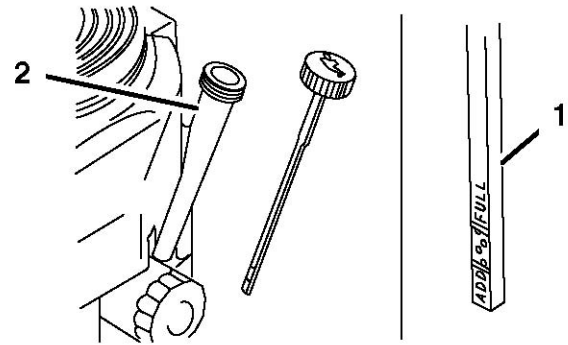


Figure 16

1. Oil dipstick
2. Filler tube

5. Unscrew the oil dipstick and wipe the end clean **Figure 16**.
6. Slide the oil dipstick fully into the filler tube, but do not thread onto tube.
7. Pull the dipstick out and look at the end. If the oil level is low, slowly pour only enough oil into the filler tube to raise the level to the Full mark.

Important: Do not overfill the crankcase with oil and run the engine; engine damage can result.

Changing the Oil (50hrs)

1. Start the engine and let it run five minutes. This warms the oil so it drains better.
2. Park the machine so that the rear of the machine is slightly lower to assure the oil drains completely.
3. Disengage the PTO.
4. Stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
5. Place a pan below the drain hose. Remove oil drain plug to allow oil to drain **Figure 17**.
6. When oil has drained completely, reinstall the drain plug.



Figure 17

Note: Dispose of the used oil at a recycling center. Slowly pour approximately 80% of the specified oil into the filler tube. Check the oil level; refer to Checking the Engine Oil Level. Slowly add the additional oil to bring it to the Full mark.

Changing the Oil Filter (100hrs)

Replace the oil filter every 100 operating hours or every other oil change.

Note: Change the oil filter more frequently when the operating conditions are extremely dusty or sandy.

1. Drain the oil from the engine; refer to Changing the Engine Oil.
2. Remove the old filter **Figure 18**.

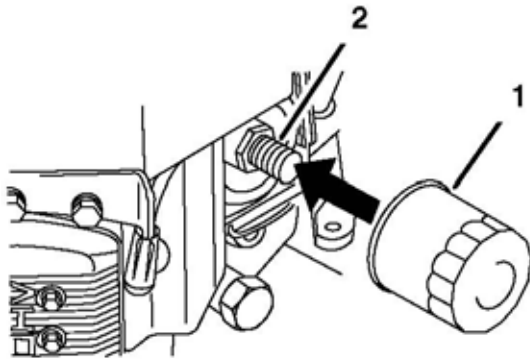


Figure 18

1. Oil filter

2. Adapter

3. Apply a thin coat of new oil to the rubber gasket on the replacement filter. Install the replacement oil filter to the filter adapter, turn the oil filter clockwise until the rubber gasket contacts the filter adapter, then tighten the filter an additional 3/4 turn **Figure 18**.
4. Fill the crankcase with the proper type of new oil; refer to Servicing the Engine Oil.

Run the engine for about 3 minutes, stop the engine, and check for oil leaks around the oil filter and drain valve.

Check the engine oil level and add oil if needed. Wipe up any spilled oil.

Servicing the Spark Plug(s) (100hrs)

Check the spark plug(s) after every 100 operating hours.

Ensure that the air gap between the center and side electrode is correct before installing the spark plug. Use a spark plug wrench for removing and installing the spark plug(s) and a gapping tool/feeler gauge to check and adjust the air gap. Install new spark plug(s) if necessary.

Type: Champion® RCJ8Y or equivalent
Air Gap: 0.030 inch (0.75 mm)

Removing the Spark Plug(s)

Disengage the PTO.

Stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.

Disconnect the wire(s) from the spark plug(s) **Figure 19**.

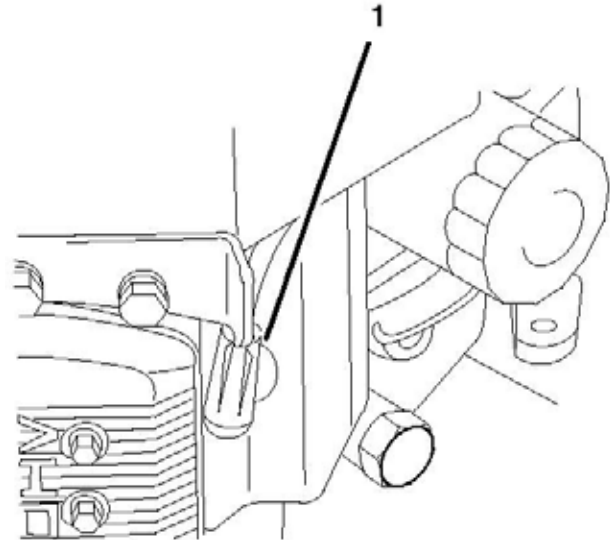


Figure 19

1. Spark-plug wire/spark plug

Clean around the spark plug(s) to prevent dirt from falling into the engine and potentially causing damage. Using a spark plug wrench, remove the spark plug(s) and the metal washers.

Checking the Spark Plug(s)

Look at the center of the spark plug(s) **Figure 20**. If you see light brown or gray on the insulator, the engine is operating properly. A black coating on the insulator usually means that the air cleaner is dirty or other rich condition.

If needed, clean the spark plug(s) with a wire brush to remove carbon deposits.

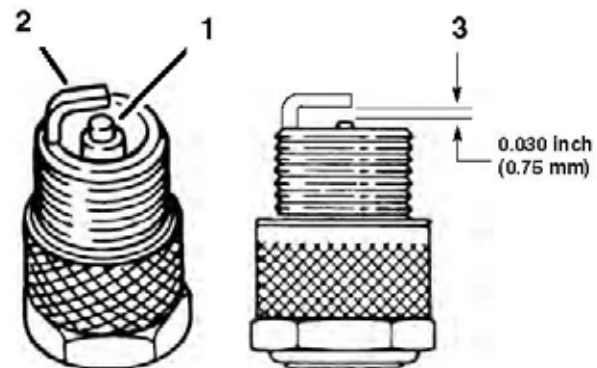


Figure 20

1. Center electrode insulator
2. Side electrode
3. Air gap (not to scale)

Important: Always replace a spark plug(s) when it has a worn electrode, an oily film, or cracks in the porcelain.

Check the gap between the center and side electrode (**Figure 20**). Bend the side electrode (**Figure 20**) if the gap is not correct.

Installing the Spark Plug(s)

Install the spark plug(s) and the metal washer(s). Ensure that the air gap is set correctly.

Tighten the spark plug(s) to 16 ft-lb (22 N-m).

Connect the wire(s) to the spark plug(s) **Figure 19**.

Air Cleaner Foam and Paper Element (25-50hrs.)

1. Refer to your Briggs and Stratton or Kawasaki Owner's Manual for removal and maintenance procedure.

Foam element: Clean after every 25 operating hours.

Paper element: Check after every 50 operating hours. Replace after every 200 operating hours or yearly, whichever comes first.

Inspect the foam and paper elements and replace them if they are damaged or excessively dirty.

Note: Service the air cleaner more frequently (every few operating hours) if the operating conditions are extremely dusty or sandy.

Important: Do not oil the foam or paper element.



In certain conditions, gasoline is extremely flammable and highly explosive. A fire or explosion from gasoline can burn you and others and can damage property.

- Drain gasoline from the fuel tank when the engine is cold. Do this outdoors in an open area. Wipe up any gasoline that spills.

- **Never** smoke when draining gasoline, and stay away from an open flame or where a spark may ignite the gasoline fumes.

Fuel Filter (200 hrs.)

1. Turn gas tank valve to off position **Figure 21**.

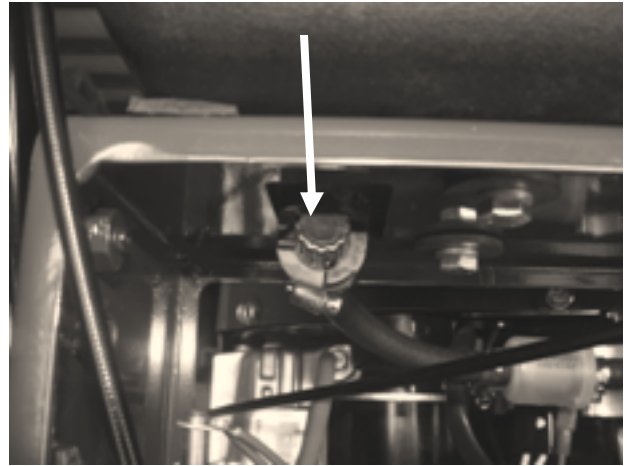


Figure 21

2. Using a straight screwdriver/pliers, loosen clamps **Figure 22**.

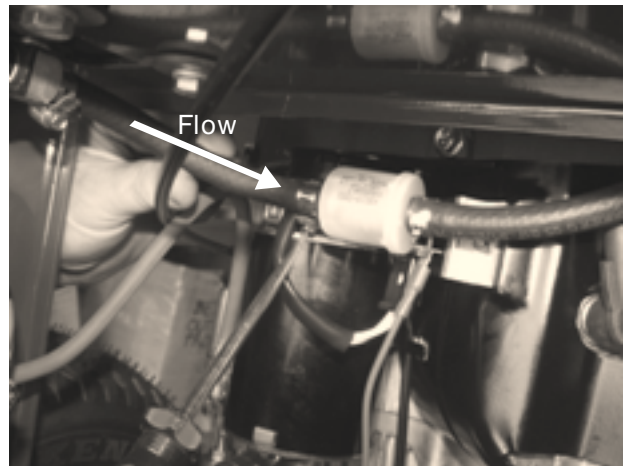


Figure 22

3. Remove hoses from filter.
4. Reinstall in reverse order.

Note: Check filter for direction of flow arrow.

Cooling System Maintenance

Clean the air intake screen before each use. Remove any build-up of grass, dirt or other debris from the cylinder and cylinder head cooling fins, air intake screen on flywheel end, and carburetor-governor levers and linkage. This will help insure adequate cooling and correct engine speed and will reduce the possibility of overheating and mechanical damage to the engine.

Grease Fittings (25 hrs.)

Note: Always wipe off any dirt/debris from grease fittings before servicing.

1. Remove belt guard cover (refer to Belt Guard Cover).
2. Using a grease gun put 3 to 4 pumps of red high temperature grease into each spindle fitting.
3. Put ½ pump of grease into each idler arm fitting. **Figure 23, 23a, 23b.**



Figure 23



Figure 23a



Figure 23b

4. Put 3 to 4 pumps of grease into each of the front caster wheels **Figure 24**.



Figure 24

Caster Fork (25 hrs.)

1. Remove caster forks (refer to height of cut adjustment).
2. Using a fine grit sand paper clean any rust or dirt from caster fork shafts and caster bearings.
3. Using a light lubricant (WD-40™), lubricate clean shafts.
4. Reinstall.

Clutch (25hrs.)

1. Spray a small amount of light lubricating oil (WD-40™) into the opening next to clutch lever **Figure 25**.



Figure 25

Tires (25 hrs.)

1. Using a tire pressure gage, maintain 14 to 16 psi for rear wheels.
2. Using a tire pressure gage, maintain 25 to 30 psi for front caster wheels.

Transaxle

Better Outdoor Products™ uses TuffTorq K-46™ transaxles in all of our Quick™ mowers. Since the K-46™ was originally designed for use in riding tractors weighing two to three times as much as your machine, it has shown itself to be an extremely reliable drive-train for our mowers. It is a sealed unit with a very large internal sump filter and requires **NO** oil changes, adjustments or routine maintenance.

Note: The hydro tank and vented cap is for expansion only. **Do not** add oil to this system.

Battery Electrolyte Level (8hrs)



Battery electrolyte contains sulfuric acid which is a deadly poison and causes severe burns.

•**Do not** drink electrolyte and avoid contact with skin, eyes or clothing. Wear safety glasses to shield your eyes and rubber gloves to protect your hands.

•Fill the battery where clean water is always available for flushing the skin.

1. Look at the side of the battery. The electrolyte must be up to the upper line (**item 2 Figure 25a**). **Do not** allow the electrolyte to fall below the Lower line (**item 3 Figure 25a**).

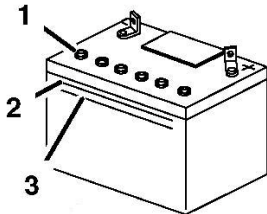


Figure 25a

1. Vent caps
2. Upper line
3. Lower line

2. If the electrolyte is low, add the required amount of distilled water; refer to Adding Water to the Battery.

Adding Water to the Battery

The best time to add distilled water to the battery is just before you operate the machine. This lets the water mix thoroughly with the electrolyte solution.

1. Remove the battery from the machine; refer to Battery in repair section.

Important: Never fill the battery with distilled water while the battery is installed in the machine. Electrolyte could be spilled on other parts and cause corrosion.

2. Clean the top of the battery with a paper towel.

3. Remove the vent caps from the battery (**item 1 Figure 25a**)
4. Slowly pour distilled water into each battery cell until the electrolyte level is up to the Upper line (**item 2 Figure 25a**) on the battery case.

Important: Do not overfill the battery because electrolyte (sulfuric acid) can cause severe corrosion and damage to the chassis.

5. Reinstall the battery vent caps.

Blade Inspection (8hrs)

Inspect the blades every 8 hours.

1. Park the machine on a level surface, disengage the blades.
2. Turn the ignition key to off.
3. Remove the key and disconnect the spark plug wire(s) from the spark plug(s).
4. Support front of deck with a jack stand.
5. Inspect the cutting edges (**item 1 Figure 26**). If the edges are not sharp or have nicks, remove and sharpen the blades.
6. Inspect the blades, especially the curved area (**Figure 26**). If you notice any cracks, wear, or a slot forming in this area (**item 3 & 4 Figure 26**), discard and immediately install a new blade.

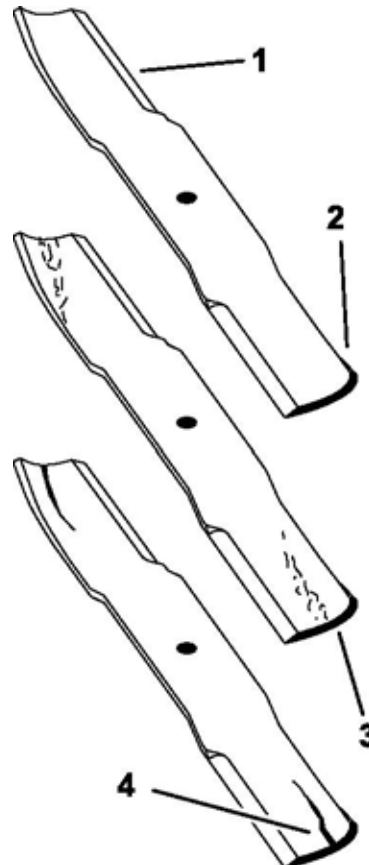


Figure 26

Troubleshooting

Problem	Possible Cause	Corrective Action
Engine will not start, starts hard, or fails to keep running.	<ol style="list-style-type: none"> 1. Fuel tank is empty. 2. Choke is not on. 3. Air cleaner is dirty. 4. Spark plug wire is loose or disconnected. 5. Spark plug is pitted, fouled, or the gap is incorrect. 6. Dirt in the fuel filter. 7. Dirt, water, or stale fuel is in the fuel system. 8. The gap between the transaxle interlock switch and hydro arm is not correct 9. Weak battery. 	<ol style="list-style-type: none"> 1. Fill fuel tank with gasoline. 2. Move the choke lever to choke position. 3. Service the air cleaner element. 4. Install wire on spark plug. 5. Install a new, correctly gapped spark plug. 6. Replace the fuel filter. 7. Drain and clean fuel system. 8. Set gap using a .010 feeler gage. 9. Service/charge battery.
Engine loses power.	<ol style="list-style-type: none"> 1. Engine load is excessive. 2. Air cleaner is dirty. 3. Oil level in the crankcase is low. 4. Cooling fins and air passages under the engine blower housing are plugged. 5. Spark plug is pitted, fouled, or the gap is incorrect. 6. Vent hole in the fuel cap is plugged. 7. Dirt in the fuel filter. 8. Dirt, water, or stale fuel is in the fuel system. 	<ol style="list-style-type: none"> 1. Reduce the ground speed. 2. Service the air cleaner. 3. Add oil to the crankcase. 4. Remove the obstruction from the cooling fins and air passages. 5. Install a new, correctly gapped spark plug. 6. Clean or replace the fuel cap. 7. Replace the fuel filter. 8. Drain and clean fuel system.
Engine overheats.	<ol style="list-style-type: none"> 1. Engine load is excessive. 2. Oil level in the crankcase is low. 3. Cooling fins and air passages under the engine blower housing are plugged. 	<ol style="list-style-type: none"> 1. Reduce the ground speed. 2. Add oil to the crankcase. 3. Remove the obstruction from the cooling fins and air passages.
Machine does not drive or moves slowly.	<ol style="list-style-type: none"> 1. Control cables need adjustment. 2. Missing wheel drive key. 3. Transaxle drive belt slipping. 4. Transaxle drive belt idler spring missing. 5. Hydraulic oil reservoir low. 	<ol style="list-style-type: none"> 1. Adjust control cables. 2. Replace wheel drive key. 3. Replace the transaxle drive belt. 4. Replace the transaxle drive belt idler spring. 5. Add hydraulic oil to the reservoir.
Abnormal vibration.	<ol style="list-style-type: none"> 1. Cutting blade(s) is/are bent or unbalanced. 2. Blade mounting bolt is loose. 3. Engine mounting bolts are loose. 4. Loose idler pulley or blade pulley. 5. Blade spindle is bent. 	<ol style="list-style-type: none"> 1. Install new cutting blade(s). 2. Tighten the blade mounting bolt. 3. Tighten the engine mounting bolts. 4. Tighten the appropriate pulley. 5. Replace spindle.
Uneven cutting height.	<ol style="list-style-type: none"> 1. Blade(s) not sharp. 2. Cutting blade(s) is/are bent. 3. Mower is not level. 4. Mower pitch is wrong. 5. Underside of mower is dirty. 6. Tire pressure is not correct. 7. Blade spindle bent. 	<ol style="list-style-type: none"> 1. Sharpen the blade(s). 2. Install new cutting blade(s). 3. Level the mower side-to-side. 4. Adjust the front-to-rear pitch. 5. Clean the underside of the mower. 6. Adjust the tire pressure. 7. Replace spindle.

Repair



Before replacing any part, ALWAYS remove battery ground cables and insulate terminals.

Ignition Switch

Electric Start (10286)

Manual Start (10333)

1. Remove ignition key.
2. Using a 7/8 open end wrench, remove the nylon ignition switch nut (10501).
3. Reach under dash panel and pull ignition switch out **Figure 27**.

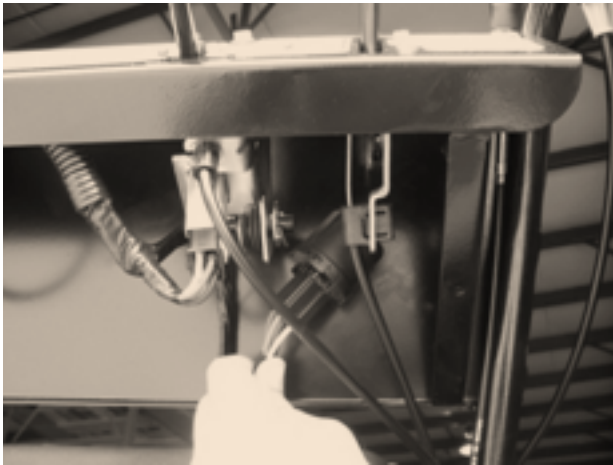


Figure 27

4. Unplug ignition switch from wiring harness.
5. Install new switch in reverse order.

Transaxle Interlock Switch (10185)

1. Unplug harness from interlock switch **Figure 28**.

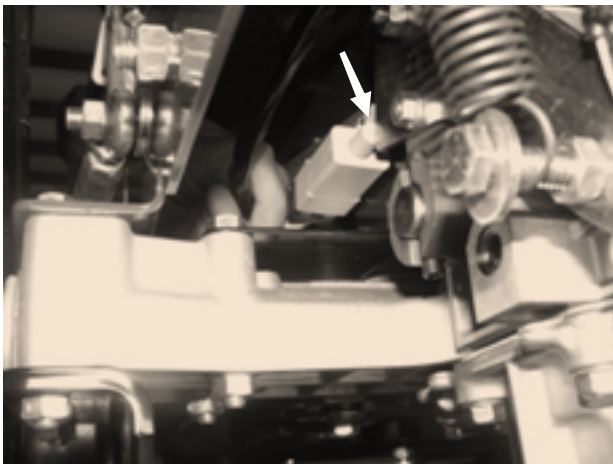


Figure 28

2. Using a 1/2 wrench and a 1/2 socket, remove both bolts holding interlock bracket to transaxle **Figure 29**.

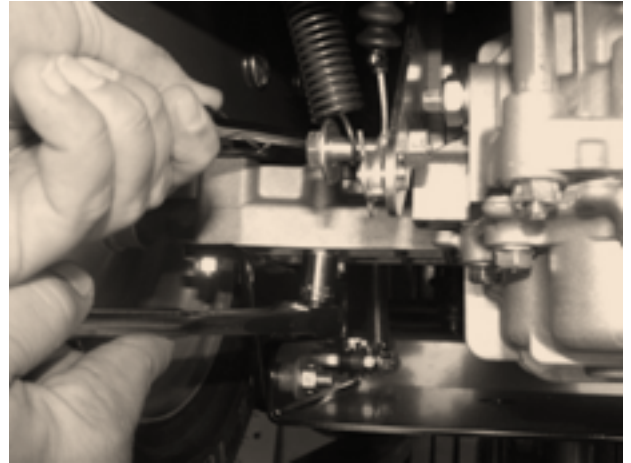


Figure 29

3. Using a 3/8 and 5/16 wrench, remove interlock switch from bracket.
4. Install new switch in reverse order.
Note: Make sure there is a small gap between the interlock switch button and hydro arm. This can be checked by using a .010 feeler gage **Figure 28**.

Brake Interlock Switch (10092)

1. Using two 17mm wrenches, loosen brake arm bolt **Figure 30**.

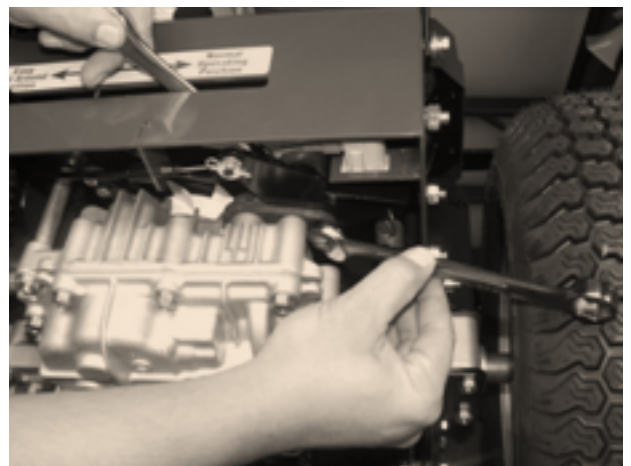


Figure 30

2. Unplug harness from interlock switch.
3. Squeeze tabs and remove switch.
4. Install new switch in reverse order.

Blade Engagement Interlock Switch (10081)

1. This switch is included as a component of the blade engagement control cable.
2. Please refer to Blade Engagement control replacement.

Battery (10126)



Battery electrolyte contains sulfuric acid which is a deadly poison and causes severe burns.

Do not drink electrolyte and avoid contact with skin, eyes or clothing. Wear safety glasses to shield your eyes and rubber gloves to protect your hands.

Removing the Battery

Battery terminals or metal tools could short against metal machine components causing sparks. Sparks can cause the battery gasses to explode, resulting in personal injury.

- When removing or installing the battery, **Do not** allow the battery terminals to touch any metal parts of the machine.

- **Do not** allow metal tools to short between the battery terminals and metal parts of the machine. Incorrect battery cable routing could damage the machine and cables causing sparks. Sparks can cause the battery gasses to explode, resulting in personal injury.

- Always Disconnect the negative (black) battery cable before disconnecting the positive (red) cable.

- Always Reconnect the positive (red) battery cable before reconnecting the negative (black) cable.

1. Remove ignition switch key.
2. Using a ½ wrench, remove the keps nut and remove the black ground cable and insulate end of cable **Figure 31**.

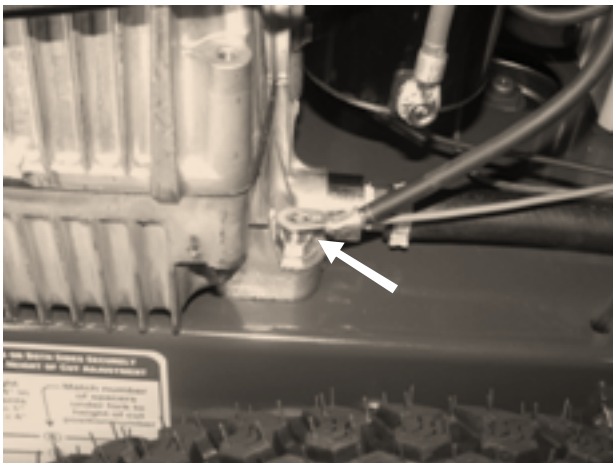


Figure 31

3. Using a ½ wrench, remove the keps nut from top of starter solenoid and remove red cable **Figure 32**.



Figure 32

4. Using a ½ wrench and socket, remove the battery clamp bolt **Figure 33**.

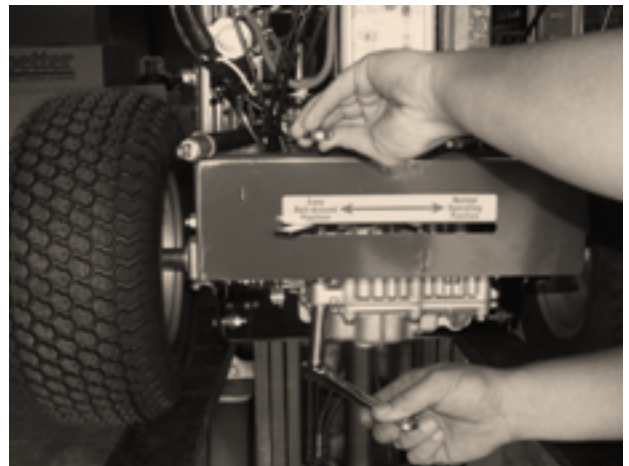


Figure 33

5. Carefully remove battery, making sure cables **do not** touch any metal surface.
6. Install new battery in reverse order.
Note: If your Quick™ mower is going to be stored, we recommend using our "Smart" Charger (10697).



Charging the battery produces gasses that can explode.

Never smoke near the battery and keep sparks and flames away from battery.

Starter Solenoid (10127)

1. Remove battery. Refer to Battery Replacement.
2. Using a 3/8 wrench, remove the white trigger wire.
3. Using a ½ wrench, remove the starter cable located on the bottom of starter solenoid **Figure 34**.

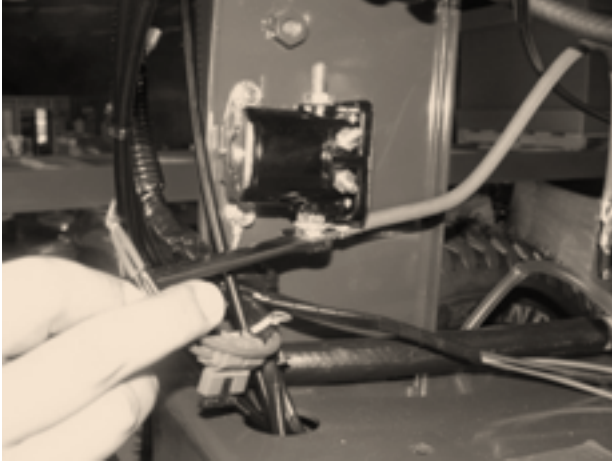


Figure 34

4. Using a Phillips screwdriver and 7/16 wrench, remove solenoid **Figure 35**.

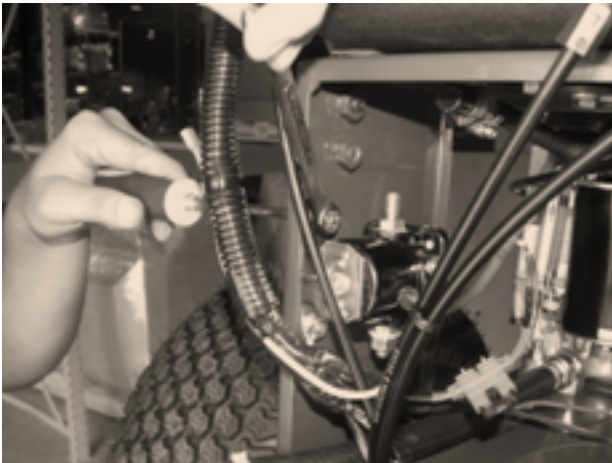


Figure 35

5. Install new solenoid in reverse order.
Note: Make sure to re-attach the green ground wire behind the solenoid mounting bolt.

Fuse

1. All electric start Quick™ mowers are equipped with an automotive type 10 amp fuse that is located near the top of starter solenoid.

Hour Meter (10220)

1. Unplug harness from hour meter.
2. Squeeze tabs and push out hour meter.
3. Install new meter in reverse order.

Note: The single green wire plug(s) into the top horizontal pin. To view full wiring schematics, refer to Wiring Schematics



Reverse Cable (10525)

1. Remove cotter pin.
2. Remove clevis pin (10523) from reverse control lever (10421) **Figure 36**.

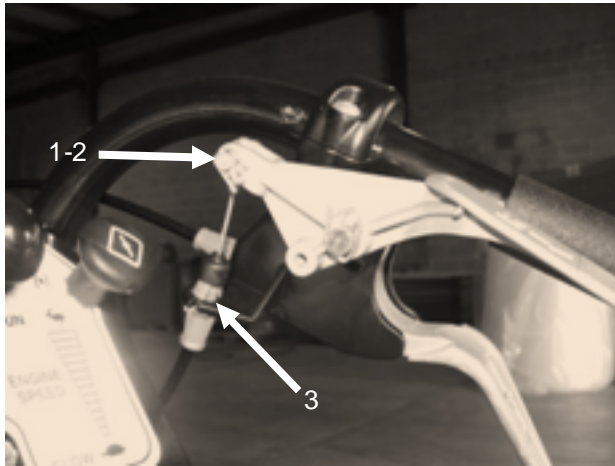


Figure 36

3. With a pair of pliers, collapse both tabs and pull cable from perch (10420) Refer to **Figure 36**.
4. Cut cable tie located near cable adjusters.
5. Remove hairpin cotter and washer **Figure 37**.

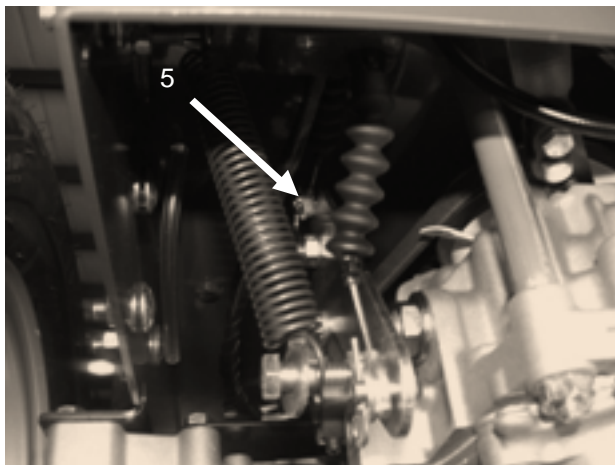


Figure 37

6. With a pair of pliers, collapse both tabs and carefully remove cable **Figure 38**.

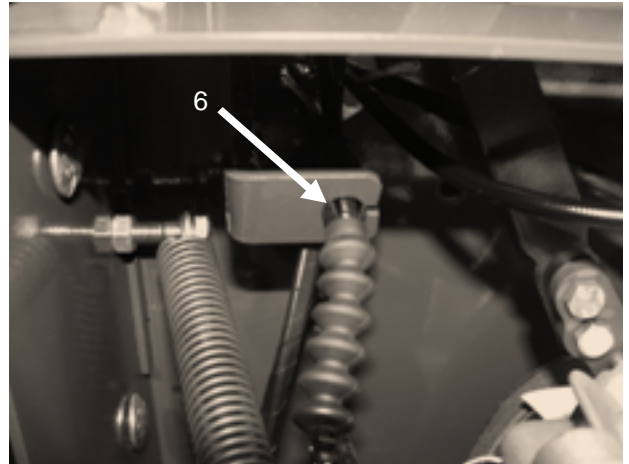


Figure 38

7. Install new cable in reverse order, making sure to seat both rubber boots on each end of cable.

Reverse Lever (10421)

1. Remove cotter pin and clevis pin from reverse control lever **Figure 39**.



Figure 39

2. Remove cotter pin **Figure 40**.



Figure 40

3. Slide reverse lever off.
4. Install new lever in reverse order.

Forward Cable (10425)

1. Remove reverse lever.
2. Remove devis pin (10423) **Figure 42.**



Figure 42

3. Remove dowel pin (10524) from forward control lever (10422) **Figure 43.**



Figure 43

4. With a pair of pliers, collapse both tabs and pull cable from perch (10420) **Figure 44.**



Figure 44

5. Cut cable tie located near cable adjusters.

6. Remove hairpin cotter and washer **Figure 45.**

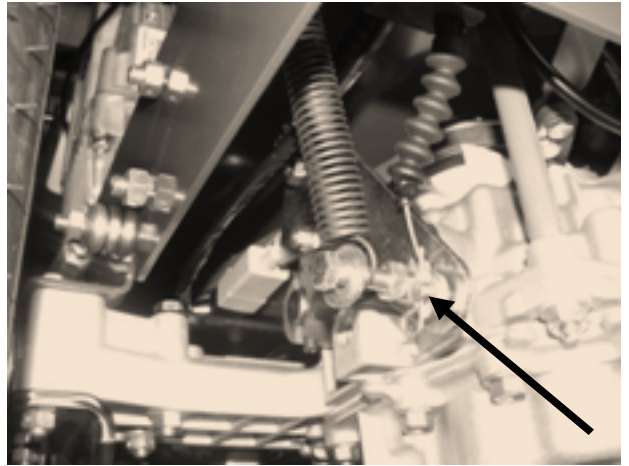


Figure 45

7. With a pair of pliers, collapse both tabs and carefully remove cable **Figure 46.**

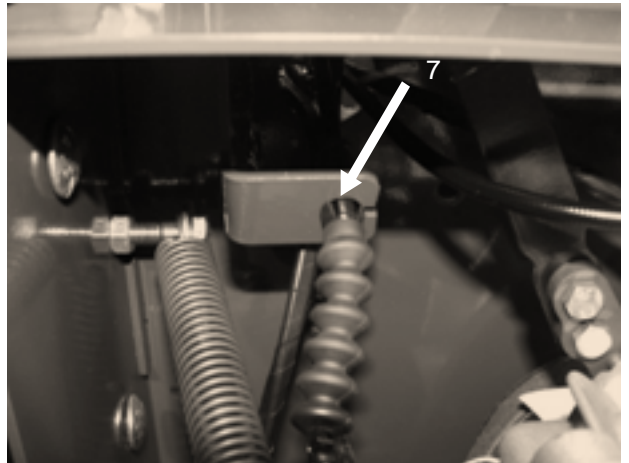


Figure 46

8. Install new cable in reverse order, making sure to seat both rubber boots on each end of cable.
Note: When inserting devis pin (10423) through reverse control lever (10421), make sure the spiral pin (10424) goes into the small hole in the forward control lever (10422).

Forward Control Lever (10422)

1. Refer to Steps 1 through 3 in forward cable replacement.
2. Reinstall in reverse order.

Operator Presence/Brake Cable (10609) **Handle (10206)**

1. Using a 13mm wrench, loosen the jam nut **Figure 47**.
2. Remove both socket head screws from the operator presence handle (10206) **Figure 47**.

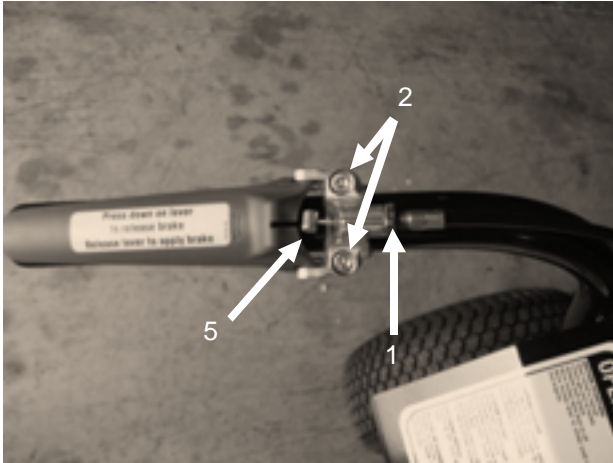


Figure 47

3. Cut cable ties.
4. Pull brake arm located under the lower right hand side of machine **Figure 48**.

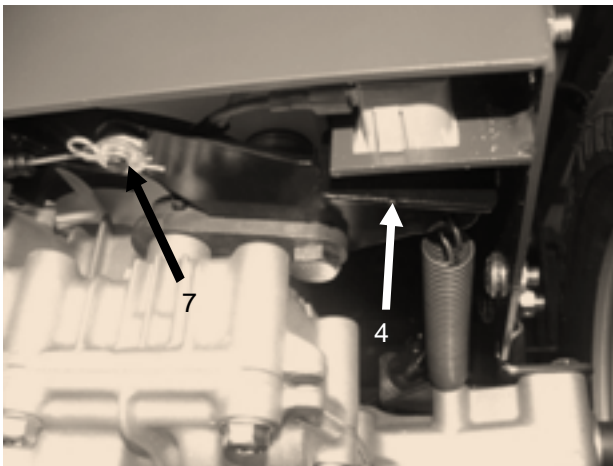


Figure 48

5. Detach the T-barb from the handle **Figure 47**.
6. Unscrew the cable from the handle.
7. Remove the hairpin cotter and washer **Figure 48**.
8. With a pair of pliers, collapse both tabs and carefully remove cable.
9. Install new cable in reverse order, making sure to seat both rubber boots on each end of cable. **Note:** Adjust cable so there is 1/8" free-play in handle **Figure 49**.



Figure 49

Blade Engagement Control Cable (10081)

1. Disconnect the wiring plug from the safety switch under the PTO control **Figure 50**.



Figure 50

2. Remove PTO knob by turning counter clockwise.
3. Using a 3/8 wrench, remove the 4 mounting screws **Figure 51**.

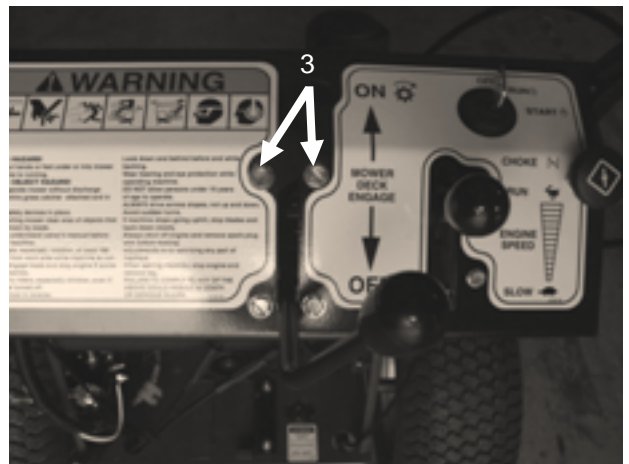


Figure 51

4. Remove the belt guard cover (refer to Belt Guard Cover).
5. Remove cotter pin and release cable from bracket **Figure 52**.

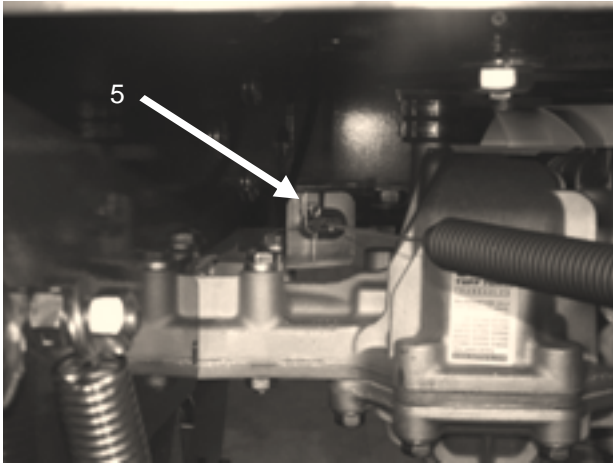


Figure 52

6. Disconnect the spring from the clutch engagement arm **Figure 53**.

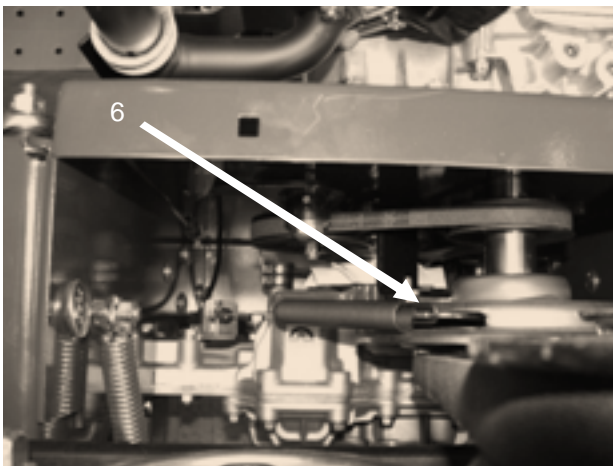


Figure 53

7. Cut any cable ties and remove cable assembly.
8. Install new cable in reverse order.
Note: After assembly, test control to ensure clutch releases fully.

Throttle Cable (10439) Kawasaki, (10115) Briggs and Stratton

1. Using a 5/16 socket, loosen the cable clamp and remove cable end **Figure 54**.

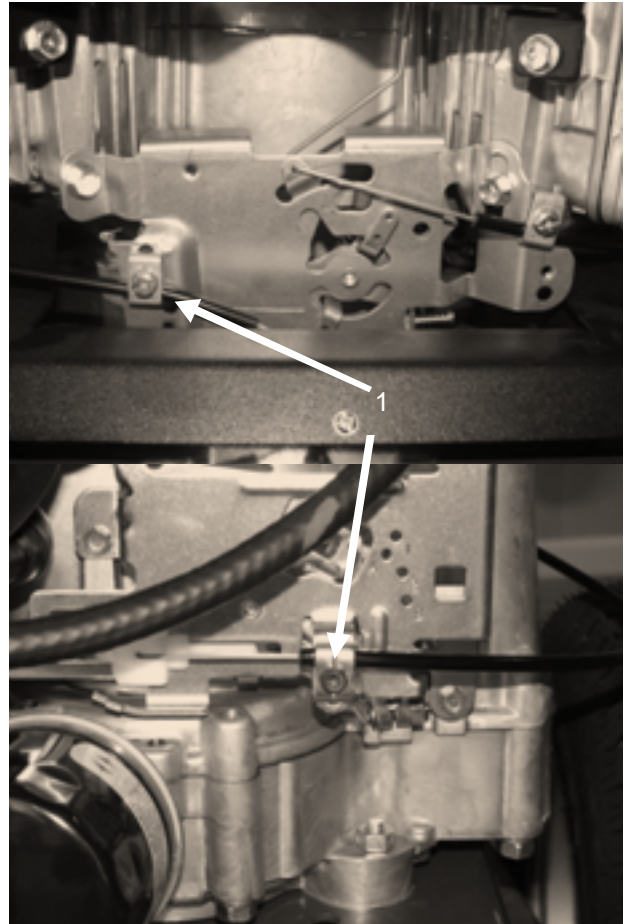


Figure 54

2. Unscrew throttle control knob counter-clockwise.
3. Using a 3/8 wrench and 5/16 socket, remove the throttle control bracket from dash panel **Figure 55**.

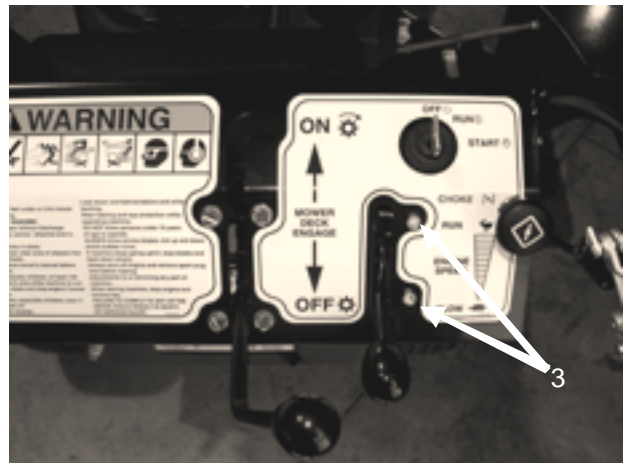


Figure 55

4. Cut any cable ties and remove cable. Install in reverse order.
Note: When installing a throttle cable on a Briggs and Stratton equipped machine, place throttle lever in the choke position and pull cable while tightening cable clamp.

Choke Cable (10440) Kawasaki Only

1. Using a 5/16 socket, loosen cable clamp end **Figure 56**.

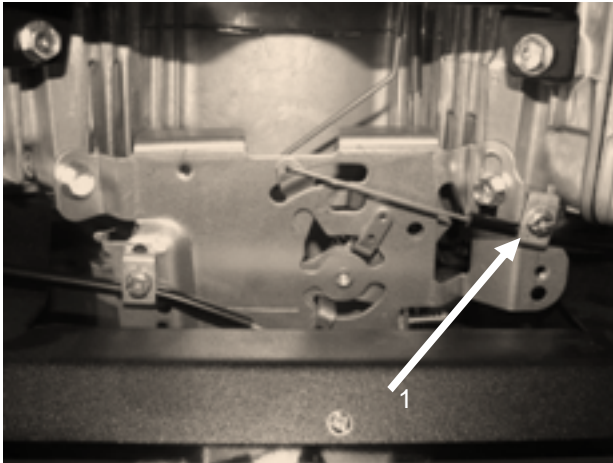


Figure 56

2. Using two 9/16 wrenches, unscrew cable jam nut **Figure 57**.



Figure 57

3. Cut any cable ties and remove cable. Install in reverse order

Note: Install cable tie to secure choke cable to battery bracket to ensure cable does not come into contact with positive battery post.

Deck Drive Belt (10048) 36" Models (10476) 44" Models

1. Remove the belt guard cover (refer to Belt Guard Cover).
2. Rotate the large idler arm to the side and roll the belt off the idler pulley **Figure 58**.



Figure 58

3. Remove the belt from the center pulley and from the clutch.
4. Install new belt in reverse order making sure that it seats in both pulleys.

Note: After replacing your belts, take time to grease your spindles and idlers with a good high temp grease!

Deck Belt (10047) 36" Models (10475) 44" Models

1. Remove the belt guard cover (refer to Belt Guard Cover.)
2. Remove the deck drive belt (refer to Deck Drive Belt).
3. Start from either side and roll the belt off the pulley **Figure 59**.



Figure 59

4. Work the belt out of all pulleys and remove.
 1. Install new belt in reverse order making sure that it seats in all pulleys.
- Note:** There is a decal on 36" and 44" decks that shows belt routing.
- Note:** After replacing your belts, take time to grease your spindles and idlers with a good high temp grease!

Transaxle Drive Belt (10049) All Models

1. Remove the belt guard cover (refer to Belt Guard Cover).
2. Remove the deck drive belt (refer to Deck Drive Belt).
3. Using a 9/16 socket, remove idler tension spring retaining nut and washer. Remove spring from stud **Figure 60**.

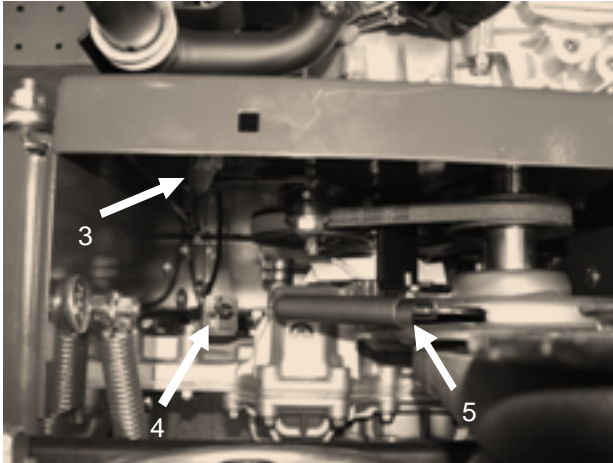


Figure 60

4. Remove cotter pin and slide cable from bracket.
5. Disconnect the spring from the clutch engagement arm **Figure 60**.
6. Between the battery and the engine there is a small access hole to move the belt over the transaxle pulley **Figure 61**.

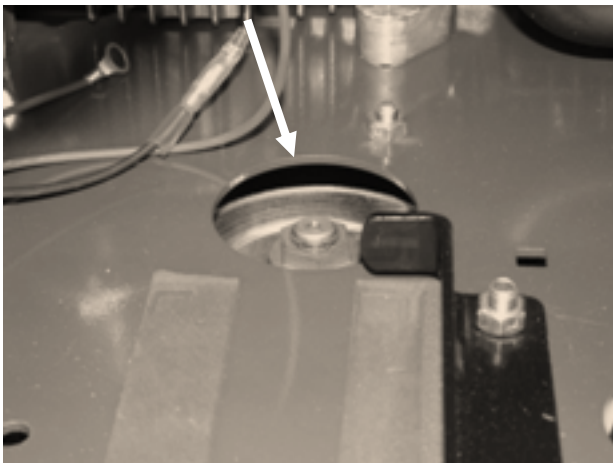


Figure 61

7. Slip belt off clutch and remove.
8. Install the new belt in reverse order making sure that it seats in all three pulleys.

Quickie 32 Belt (10664)

1. Remove the belt guard cover.
2. Start from either side and roll the belt off pulleys **Figure 62**.

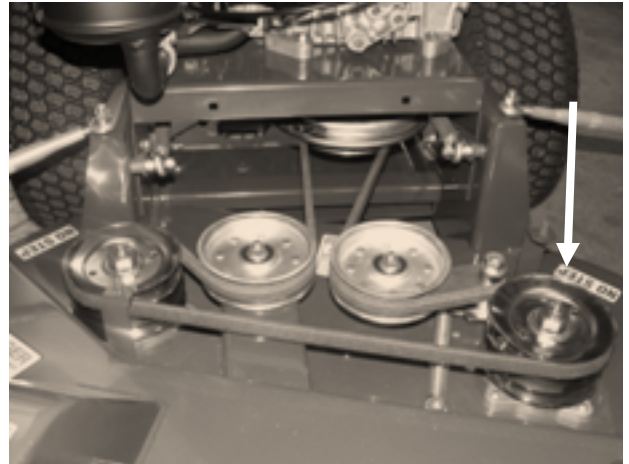


Figure 62

3. Work the belt out of all pulleys and remove.
4. Install new belt in reverse order making sure that it seats in all pulleys.

Note: After replacing your belts, take time to grease your spindles and idlers with a good high temp grease!

Single Disc Clutch (10051)

1. Remove deck drive belt (refer to Deck Drive Belt).
2. Lower mower deck to the lowest position.
3. Remove transaxle drive belt (refer to Transaxle Drive Belt).
4. Using a small pipe wrench and ratchet with a 5/8 socket, remove the clutch retaining bolt **Figure 63**.

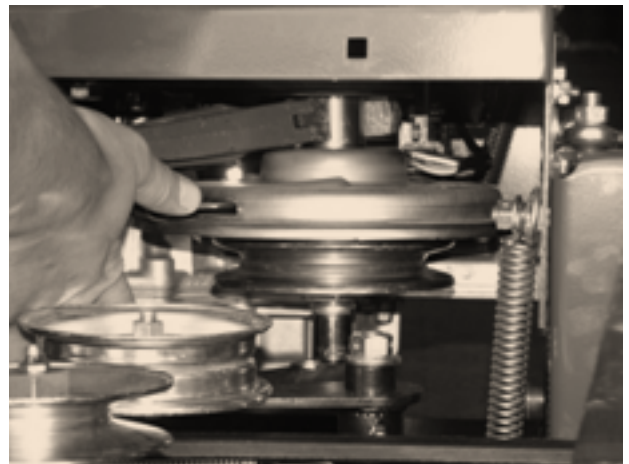
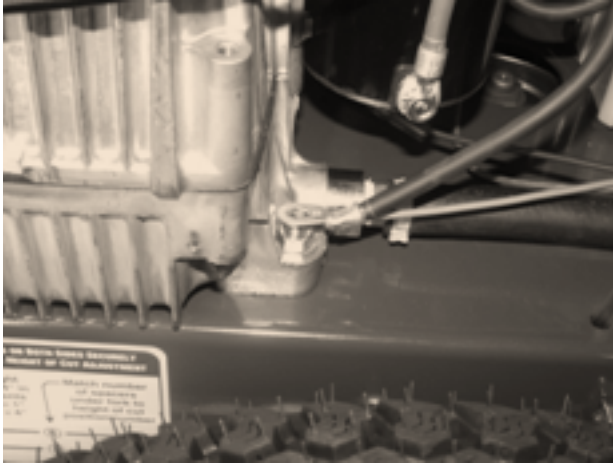


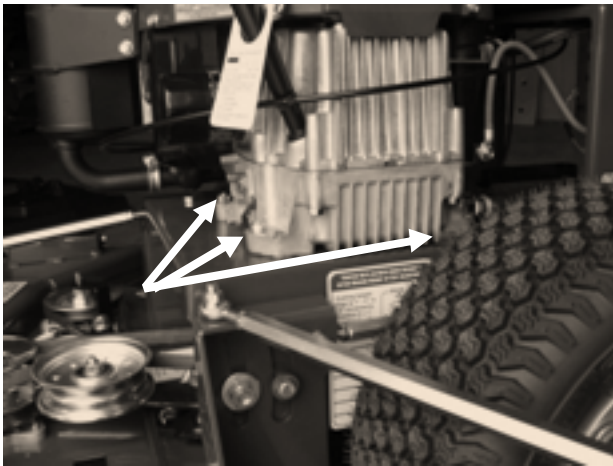
Figure 63

Note: Clutch bolt can be removed through the hole in the swing arm.

5. Remove the ground nut and both ground cables using a ½ wrench **Figure 64**.

**Figure 64**

6. Remove 3 engine bolts shown in **Figure 65**.

**Figure 65**

7. Rotate engine clockwise to obtain clearance between transaxle and clutch.
8. Remove clutch.
9. When installing new clutch make sure the anti-rotation stud is inserted in the anti-rotation bracket.

Note: Use high strength (Red) Loctite™ on the threads of clutch bolt when installing.

Multi Disc Clutch (10579)

1. Remove deck drive belt (refer to Deck Drive Belt).
2. Lower mower deck to lowest position.
3. Remove transaxle drive belt (refer to Transaxle Drive Belt).
4. Using a small pipe wrench and ratchet with a 5/8 socket, remove the clutch bolt **Figure 63**.
Note: Clutch bolt can be removed through the hole in the swing arm.
5. Remove clutch.
6. When installing new clutch, make sure the anti-rotation stud is inserted into the anti-rotation bracket.

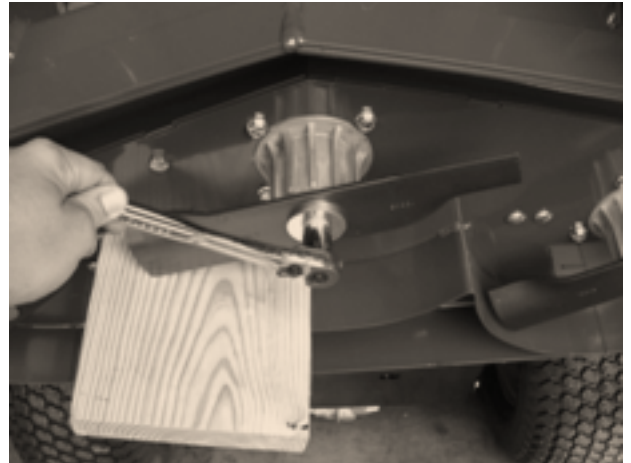
Note: Use high strength (Red) Loctite™ on the threads of clutch bolt when installing.

Spindle (10323)

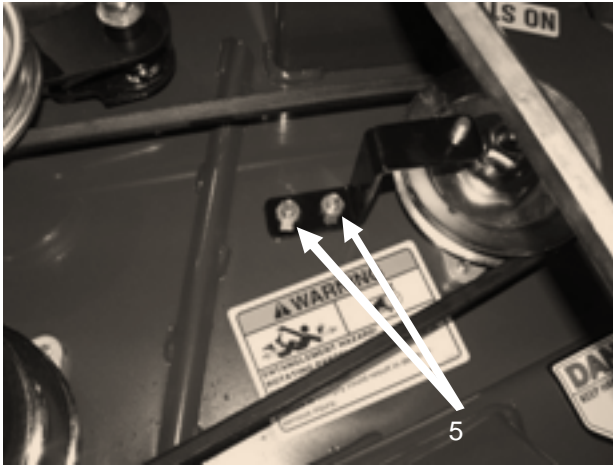
1. Support front of machine with jack stand **Figure 66**.

**Figure 66**

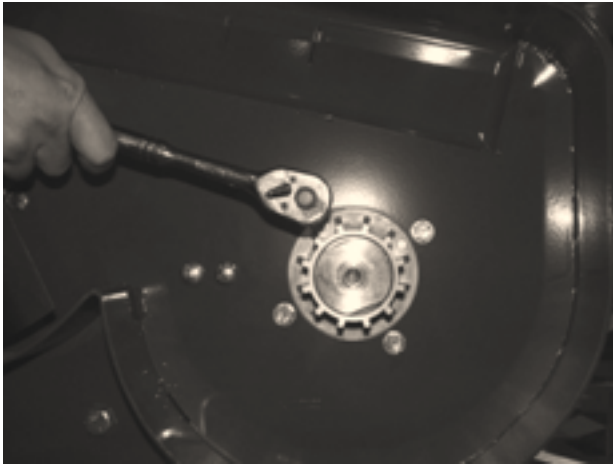
2. Secure blades so that they will not spin, and remove blade **Figure 67**.

**Figure 67**

3. Remove belt guard cover (refer to Belt Guard Cover).
4. Remove deck drive belt (refer to Deck Drive Belt).
5. Remove deck belt (refer to Deck Belt).
6. Using 1/2 socket, remove belt guard brackets (36" models only) **Figure 68**.

**Figure 68**

7. Using a 15/16 socket and 1 3/4 wrench, remove the spindle pulley nut and remove pulley being careful not to damage it.
8. Using a 1/2 socket, remove spindle mounting bolts **Figure 69**.

**Figure 69**

9. Install new spindle in reverse order.

Spindle Pulley (10251) (10252) (10483)

1. See Spindle Replacement above.
2. 36" models have two single pulleys (10252) and one double pulley (10251).
3. 44" models have two single pulleys (10252) and one double pulley (10483).
4. 32" models have two pulleys (10650).

Idler Pulley Replacement (10027) Deck Idler (10028) Deck Drive Idler

1. Remove belt guard cover (refer to Belt Guard Cover).
2. Remove deck drive belt (refer to Deck Drive Belt).
3. Remove deck belt (refer to Deck Belt).
4. Using a 9/16 wrench and 9/16 socket, remove idler pulley bolt **Figure 70**.

**Figure 70**

5. Install new pulley in reverse order.

Idler Spring Replacement (10029) Small (10326) Large

1. Remove belt guard cover (refer to Belt Guard Cover).
2. Remove deck drive belt (refer to Deck Drive Belt).
3. Remove deck belt (refer to Deck Belt).
4. Using 9/16 socket, remove spring retaining nut and washer and remove spring **Figure 71**.

**Figure 71**

5. Using a 3/4 socket and wrench, remove idler arm bolt **Figure 72**.



Figure 72

6. Replace spring and install in reverse order.
Note: Grease idler arm after reinstalling.

Rear Wheel

1. Support the rear of machine securely with a jack stand (making sure not to rest on the transaxle lever) so the wheels are off the ground **Figure 73**.

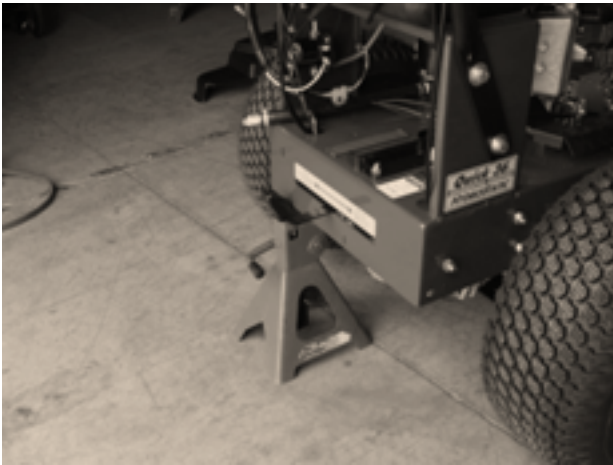


Figure 73

2. Using a straight screwdriver, remove the E dips **Figure 74**.



Figure 74

3. Remove rear wheels, spacers (10065), and drive keys (10064).
4. Install new wheel in reverse order.
Note: Be sure wheel drive keys are in place.



Front Caster Wheel (10007)

1. Using two 1-1/8 wrenches, remove axle bolt and remove wheel.
2. Install in reverse order. **Note:** When reinstalling axle bolt place a small amount of (Blue) Loctite™ on threads. Make sure wheel turns freely. **Do not** over tighten. Also, grease wheel bearings.

Engine

1. Remove battery if equipped (refer to Battery Replacement).
2. Disconnect wiring harness from rear of engine **Figure 75**.

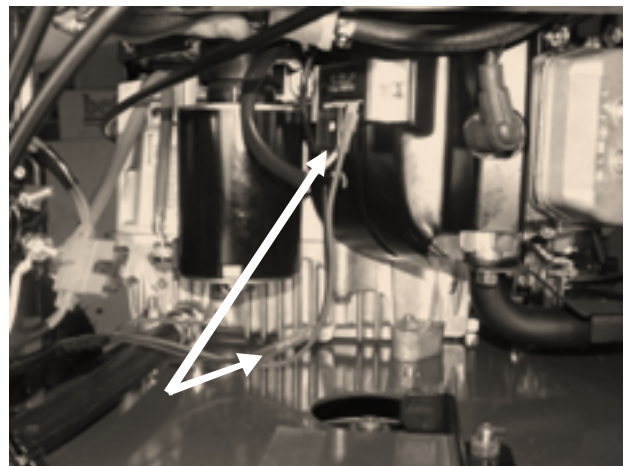


Figure 75

3. Using a 7/16 wrench, remove the starter cable
Figure 76.

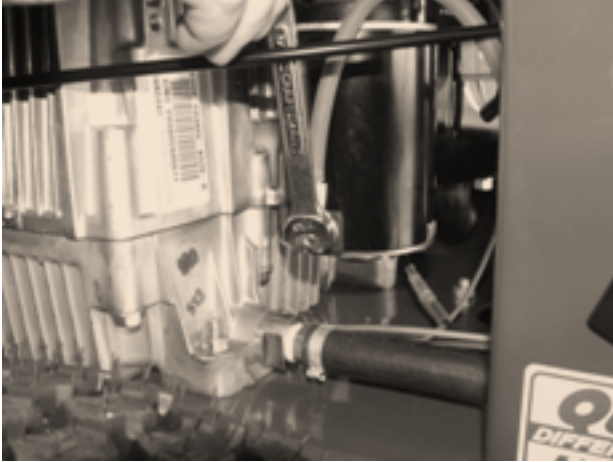


Figure 76

4. Disconnect throttle cable (refer to Throttle/Choke Cable Replacement).
5. Turn gas tank valve to Off position **Figure 77.**

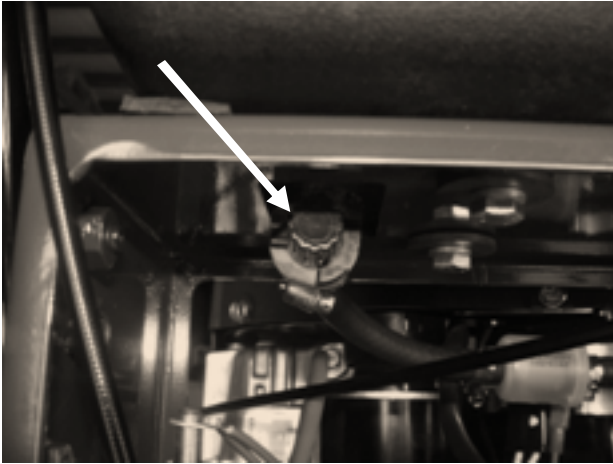


Figure 77

6. Using a straight screwdriver, disconnect fuel line from engine **Figure 78.**

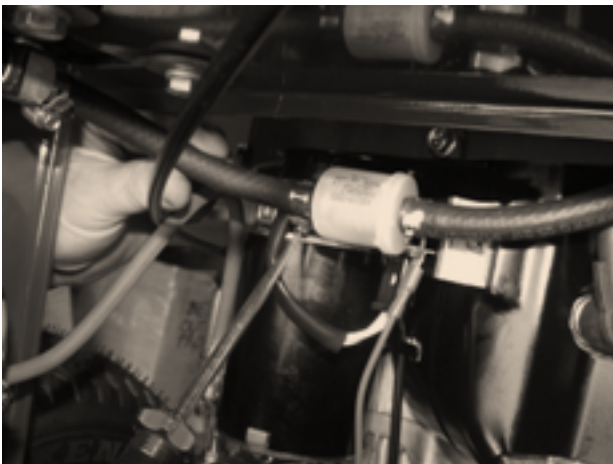


Figure 78

7. Remove transaxle drive belt (refer to Transaxle Drive Belt).

8. Remove clutch (refer to Clutch Replacement).
9. Using a 1/2 wrench and 1/2 socket, remove the four bolts holding the engine to the power unit.
10. Lift engine slowly while turning it so the muffler clears heat shield (if equipped).
11. Install new engine in reverse order.

Transaxle (10052)

1. Remove belt guard cover (refer to Belt Guard Cover).
2. Disconnect the interlock switch wiring at brake arm (refer to Transaxle Interlock Switch).
3. Disconnect the operator presence cable at transaxle (refer to Operator Presence Cable).
4. Disconnect the forward cable at transaxle (refer to Forward Drive Cable).
5. Disconnect the reverse cable at clutch (refer to Reverse Cable).
6. Disconnect the blade engagement cable (refer to Blade Engagement).
7. Remove the transaxle drive belt (refer to Transaxle Drive Belt).
8. Remove rear wheels (refer to Rear Wheel).
9. Using a 1/2 wrench and a 1/2 socket, remove the 7" tail strut bolt located at the rear of the transaxle (refer to Battery Replacement).
10. Using a 1/2 wrench and socket, remove transaxle mounting bolts **Figure 79.**

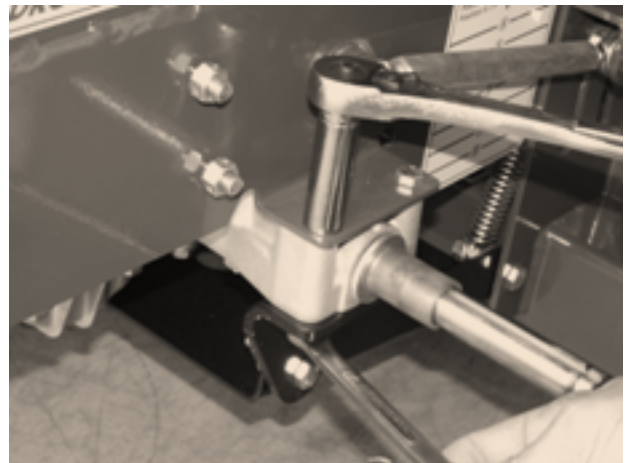
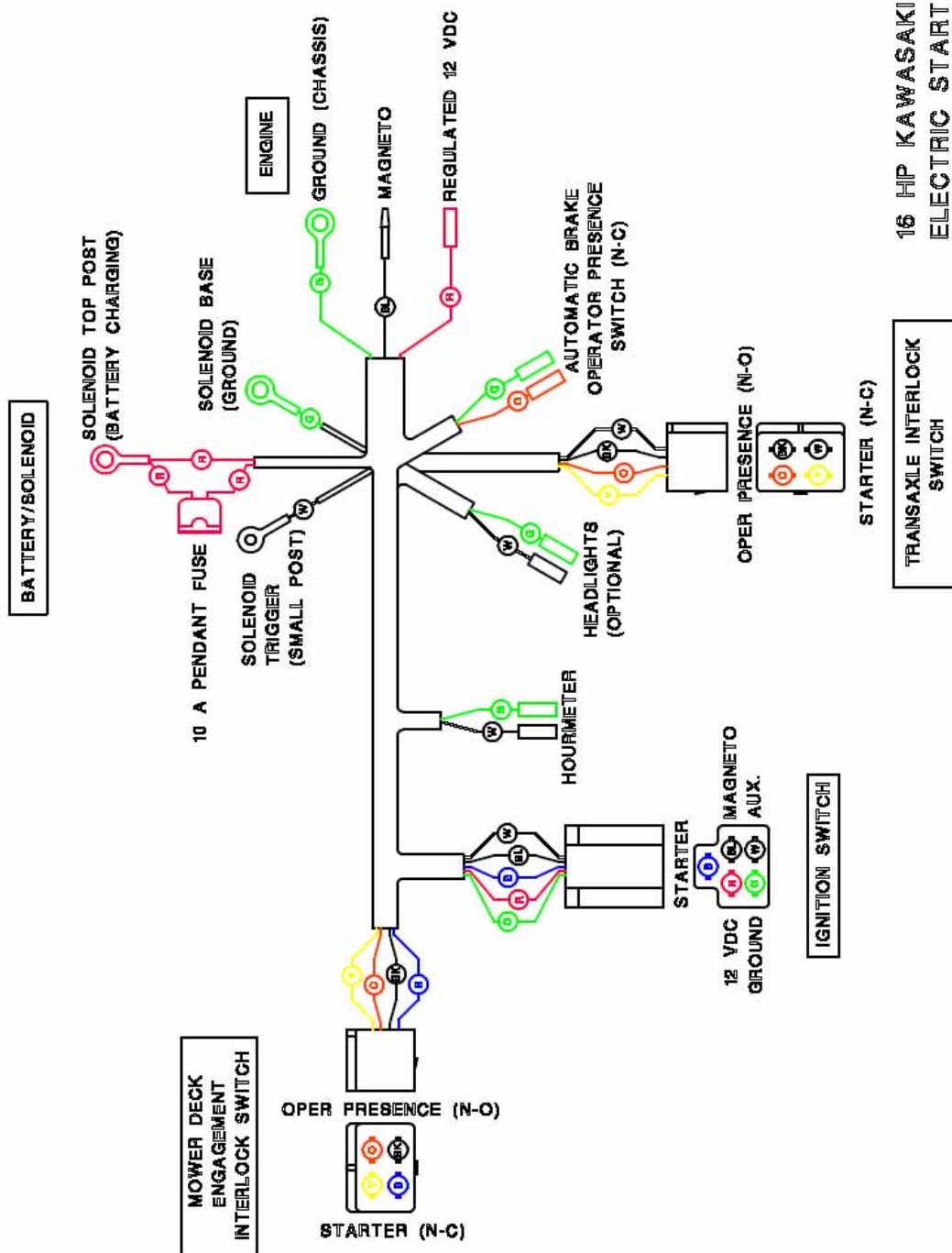


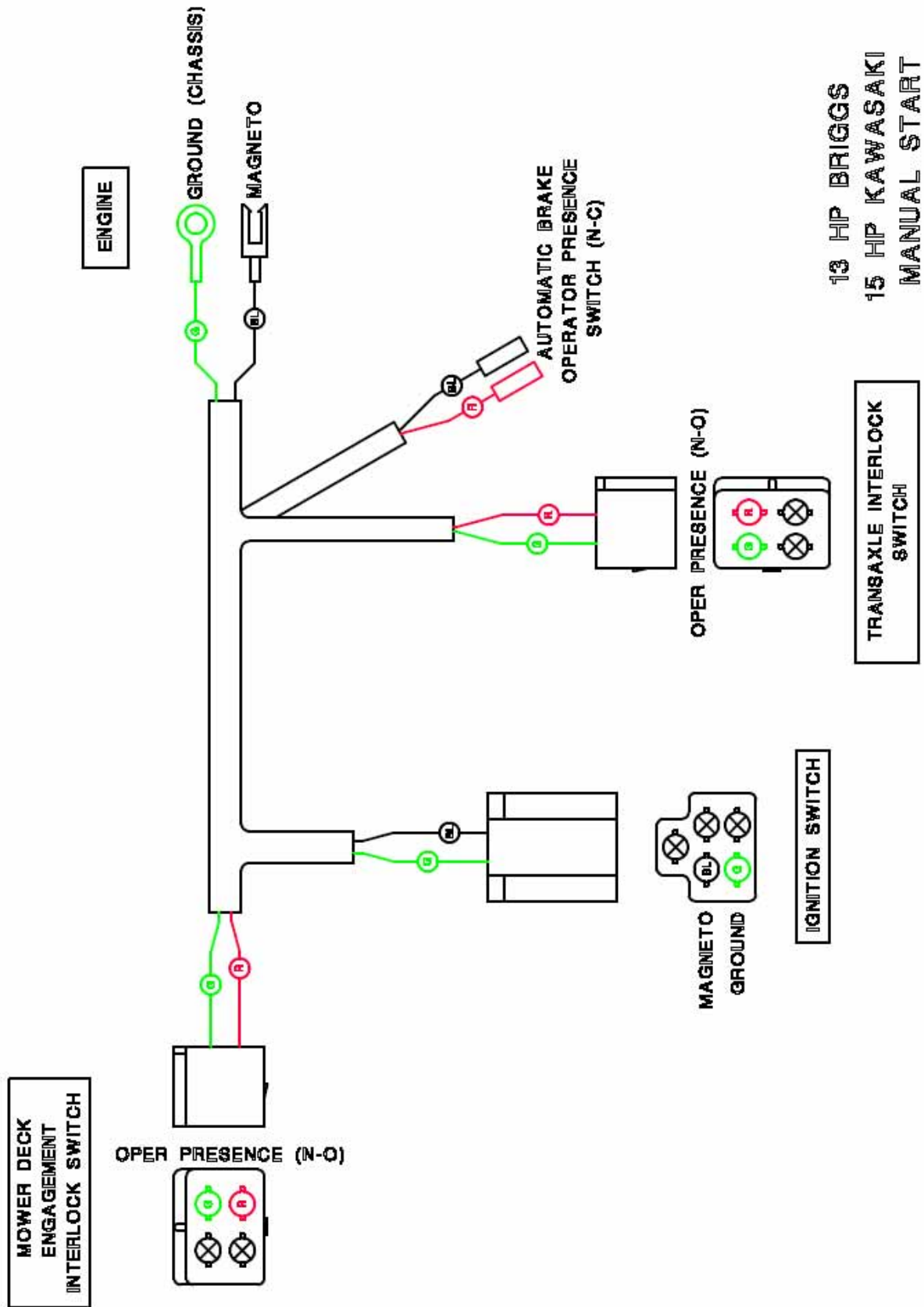
Figure 79

Note: It is recommended to have another person to help remove the old transaxle and to install the new one.

11. Remove transaxle by pulling it toward the front of machine until the bypass arm clears the opening in the frame.
12. Install the new transaxle in reverse order being careful not to damage the transaxle fill cap.

Wiring Schematics







Accessories

Mulching Kit (ACC-0013) 36" models (ACC-0014) 44" models

1. Support front of machine with jack stand **Figure A**.



Figure A

1. Slide mulch plate into place **Figure B**.



Figure B

2. Insert carriage bolt through hole in mulching kit and through hole in deck **Figure C**.



Figure C

3. Secure with lock washer and knob.
4. Insert carriage bolt through hole in deck and through hole in mulching kit **Figure D**.



Figure D

5. Secure with flat washer, lock washer, and knob.

Gator Blades (ACC-0002) 36" models **(ACC-0011) 44" models**

Note: Install Gator blades teeth up.



1. Support the front of machine with jack stand.
2. Secure blades so that they will not spin and remove blades **Figure E**.

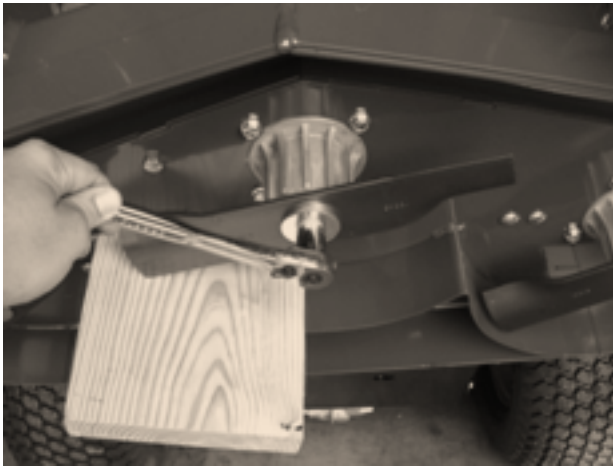


Figure E

3. Install new Gator blades making sure to keep bolt, lock washer, and blade washer in correct order **Figure F**.

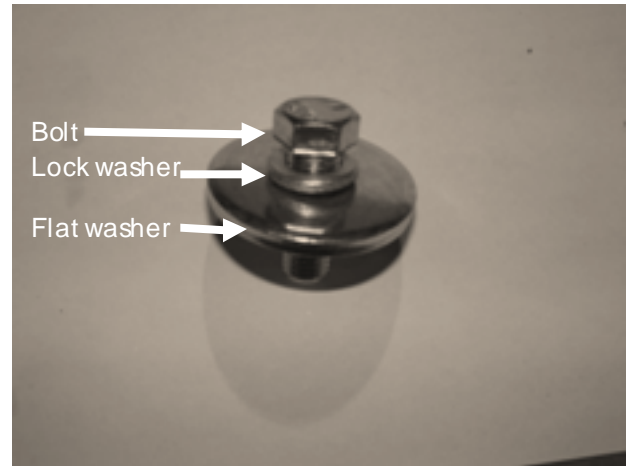


Figure F

Note: It is important to keep blades sharp for a good quality of cut.

Mulching Tips

Obtaining good results when mulching depends on a lot of different variables: Moisture content of the grass, thickness of the turf, ground speed of the mower, etc., are just a few of the factors determining performance.

But, the two Cardinal rules of mulching are:

1. Mulch when it's fairly dry.
2. Mulch often.

If the grass is damp (recently rained, morning dew, sprinkler has been running, etc.), the clippings can clump together and become too heavy to remain aloft and recirculate under the deck. That's why it's important to mulch when it's dry, so that the grass is light enough to remain moving under the deck and recycle through the cutting blades.

A mistake people sometimes make when transitioning from side discharge mowing to mulching is to mow on the same "once every week to ten days" schedule they've been used to in the past. When mulching, one should mow the area every 4-5 days. Because if the grass becomes too long, the deck can simply become overwhelmed with the volume of clippings. Mowing more often keeps the volume manageable.

Headlight Kit (ACC-0003)

Note: Your headlights will be on anytime your switch is in the on position.

1. Using a 9/16 wrench, install brackets by removing one handlebar bolt at a time **Figure G**.

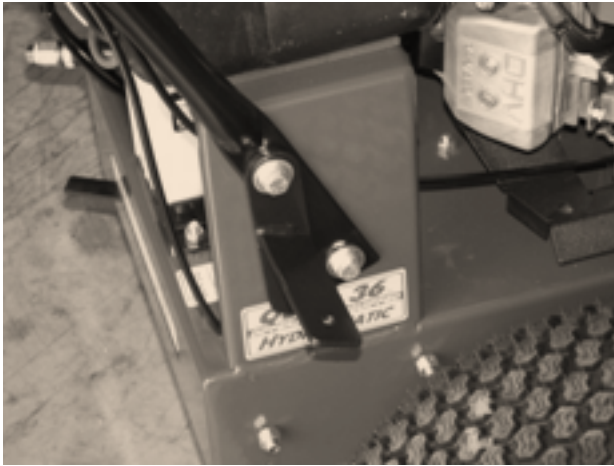


Figure G

2. Using a ½ wrench, install the head light to the bracket **Figure H**.



Figure H

3. Using a ½ wrench, adjust the head light to the desired angle **Figure I**.

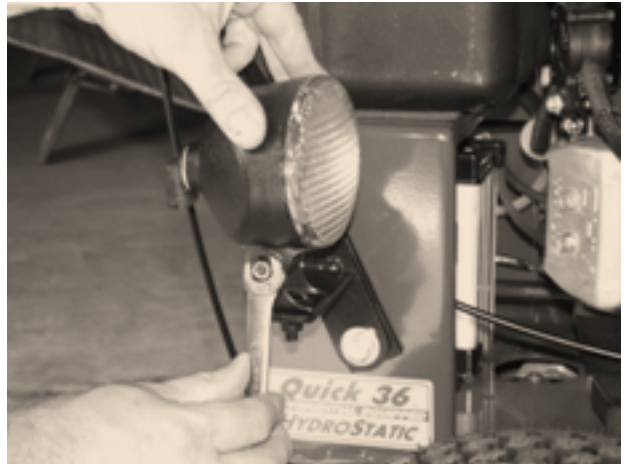


Figure I

4. Insert the headlight plug with the longest loose wire to the right headlight **Figure J**.



Figure J

5. Insert the other head light plug into the left headlight.
6. Plug headlight wiring harness into machine **Figure K**.

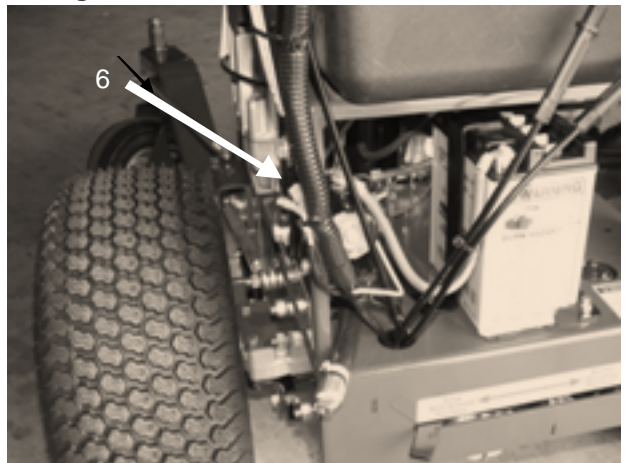


Figure K

Step Saver (ACC-0020)

1. Using a 9/16 wrench, install hitch plates to existing bolts **Figure L**.



Figure L

2. Using a 7/16 wrench, install the support bracket to the handlebar with U-bolts. Align the top of the bracket with the bottom edge of dash panel **Figure M**.



Figure M

3. Insert the kingpin of the trailer arm into the bearings on the rider platform.
4. Secure with snap ring **Figure N**.



Figure N

5. Attach Step Saver™ using the devis pins and hairpin cotters **Figure O**.

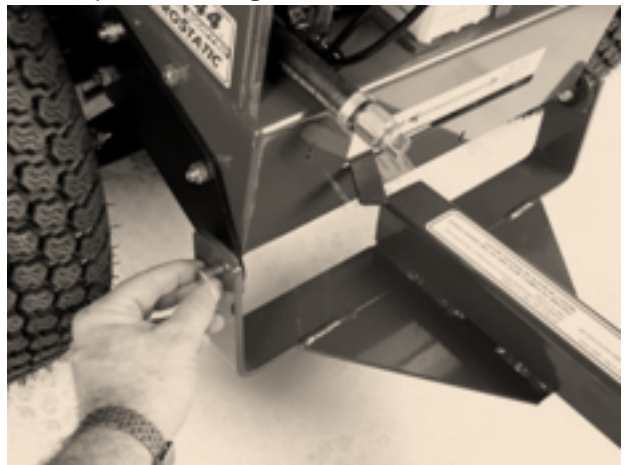


Figure O

6. Secure the Step Saver™ in the folded position using lynch pin **Figure P**.



Figure P

Striping Roller (ACC-0009) 36" models
(ACC-0019) 44" models

1. Install mounting arms in existing holes in rear of frame **Figure Q**.



Figure Q

2. Attach mounting arms to the green slotted channel.
3. Adjust striping assembly left or right to center behind the mower.
4. The system should now be capable of free floating independently from the mower itself.

Grass Catcher (ACC-0001)

1. Using two 9/16 wrenches, remove chute **Figure R**.



Figure R

2. Install by aligning the two pins on grass catcher to the holes that the chute was attached to **Figure S**.

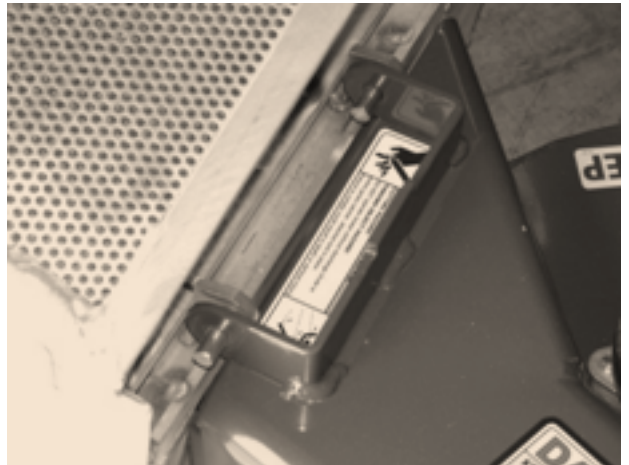


Figure S

Warranty

Warranty

Proper maintenance of equipment purchased from Better Outdoor Products™ is the Owner's responsibility. Follow the instructions in your Owner's Manual for the proper maintenance schedule. Better™ can provide you with the complete line of genuine parts and accessories necessary to keep your machine running like new. All parts orders are shipped directly to your door the same day the order is received (for orders placed before 3:00 PM Eastern Time).

We proudly stand behind the quality of every Quick™-Series Mower, by offering a:

Two-Year Residential Homeowner and One-Year Commercial Operator Warranty.

This limited warranty for residential homeowners covers any defect in materials or workmanship in your Better Outdoor Products™ Quick™ mower for two years from the date of purchase for the original buyer.

Better Outdoor Products™ mowers used commercially are warranted for one year to the original buyer.

Commercial use is defined as either having hired operators or used for income producing service.

We will repair or replace any part or parts found at our sole discretion to be defective without charge, directly to the original owner of record.

Portions of Better Outdoor Products equipment are warranted separately by their respective manufacturers:

Briggs & Stratton Engines: Two years in homeowner use; One year in commercial use.

Kawasaki Engines: Two years in homeowner use; One year in commercial use.

Tuff Torq Transaxle: Two years in homeowner use; One year in commercial use.

Battery: One year prorated limited warranty with 100% replacement in the first 90 days.

ITEMS NOT COVERED BY THIS WARRANTY

This warranty does not cover maintenance items such as lubricants, filters, cleaning, tune-ups, brake and/or clutch inspection, adjustments made as part of normal maintenance, blade sharpening, set-up, abuse, misuse, negligence, accidents, and normal wear. It does not cover incidental or consequential costs such as transporting your equipment to and from a dealer, telephone charges or renting a product temporarily to replace a warranted product.

There is no other warranty expressed or implied.

HOW DO STATE LAWS APPLY?

The limited warranty gives you specific legal rights, and you may also have other rights, which vary from State to State.